

NISTIR 4871

(Supersedes NISTIR 4820)

NIST PUBLICATIONS

VALIDATED PRODUCTS LIST 1992 No. 3

Programming Languages
Database Language SQL
Graphics
GOSIP
POSIX
Security

Judy B. Kailey Editor

U.S. DEPARTMENT OF COMMERCE Technology Administration National Institute of Standards and Technology Computer Systems Laboratory Software Standards Validation Group Gaithersburg, MD 20899

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TECHNOLOGY ADMINISTRATION
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FOREWORD

The Validated Products List is a collection of registers describing implementations of Federal Information Processing Standards (FIPS) that have been validated for conformance to FIPS. The Validated Products List also contains information about the organizations, test methods and procedures that support the validation programs for the FIPS identified in this document.

The Validated Products List is updated quarterly.

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1. INTRODUCTION

1.1 Purpose

The testing of Information Technology (IT) Products to determine the degree to which they conform to specific Federal Information Processing Standards (FIPS) may be required by Government agencies as specified the Federal Information Resources Management Regulation (FIRMR) Parts 201.13 and 201.39, and the associated Federal ADP and Telecommunications Standards Index. Products having a current validation certificate or test report may be offered or delivered by vendors in response to requirements as set forth in solicitations by Federal agencies. The Validated Products List (VPL) contains conformance testing information for the following IT Standards:

Programming Languages COBOL, Fortran, Ada, Pascal, C, and MUMPS Database Language SQL Graphics
GOSIP
POSIX
Security

This List is updated and published quarterly. The information contained herein is supplied by the contributors listed in Section 2.6 and Appendix A, and is current as of the tenth of the month preceding the publication date. Copies of the VPL may be obtained from:

National Technical Information Service U.S. Department of Commerce 5285 Port Royal Road Springfield, VA 22151.

Subscriptions: (703) 487-4630 Individual Copies: (703) 487-4650

Ordering Number: PB92-937300

The entries in the printed VPL are contained in WordPerfect Version 5.1 files and may be accessed on the Internet using the instructions listed below.

Type: ftp speckle.ncsl.nist.gov (internet address is 129.6.59.2)

Login as user ftp

Type your e-mail address as the password

Type: cd pub/vpl

Questions or comments concerning the VPL should be directed to:

National Institute of Standards and Technology (NIST) Computer Systems Laboratory Software Standards Validation Group Building 225, Room A266 Gaithersburg, MD 20899 Telephone (301) 975-3274

1.2 Document Organization

1.2.1 Programming Languages

Section 2 identifies those COBOL, Fortran, Pascal, C, and Ada programming language processors that have a current validation certificate referencing the applicable FIPS as of the date of this publication.

1.2.2 Database Language SQL

Section 3 identifies those SQL language processors that have a registered test report for FIPS PUB 127-1 as of the date of this publication.

1.2.3 Graphics: GKS

Section 4 lists those GKS implementations that have a current validation certificate for FIPS PUB 120-1.

1.2.4 Graphics: CGM

Section 5 identifies those Computer Graphics Metafiles (CGMs) that have a registered test report for FIPS PUB 128.

1.2.5 GOSIP

Section 6 contains information regarding FIPS PUB 146-1, GOSIP, conformance testing registers.

1.2.6 **POSIX**

Section 7 identifies POSIX products that have a current validation certificate for FIPS PUB 151-1.

1.2.7 Computer Security

Section 8 contains information regarding validated products for FIPS PUB 46-1, DES, and FIPS PUB 113, MAC.

1.2.8 FIPS Conformance Testing Products

Appendix A lists FIPS conformance testing products and services available to the public. Information for these products and services may be obtained by contacting the appropriate person listed.

2. PROGRAMMING LANGUAGES

2.1 FIPS Programming Language Standards

As specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies when acquiring language processors, must assure that processors are in accordance with the following FIPS for programming languages:

- a. COBOL processors must satisfy the provisions of FIPS PUB 21-3, COBOL, and must be identified as implementing all of the language elements of at least one of the subsets of FIPS COBOL as specified in FIPS PUB 21-3.
- b. BASIC processors must satisfy the provisions of FIPS PUB 68-2, BASIC.
- c. Fortran processors must satisfy the provision of FIPS PUB 69-1, Fortran, and must be identified as implementing all of the language elements of the subset or full levels of FIPS Fortran as specified in FIPS PUB 69-1.
- d. Pascal processors must satisfy the provisions of FIPS PUB 109, Pascal.
- e. Ada processors must satisfy the provisions of FIPS PUB 119, Ada.
- f. MUMPS processors must satisfy the provisions of FIPS PUB 125, MUMPS.
- g. C processors must satisfy the provisions of FIPS PUB 160, C.

Copies of the above publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Conformance testing programs are currently available for all above FIPS except for the programming language BASIC. A test suite for BASIC is being developed.

2.2 Organization of Programming Language Processor Entries

The entries in the VPL for programming language processors are presented as follows:

- The VENDOR ID column contains the name of the Vendor of the processor.
- The PROCESSOR ID column contains the Processor identification and the Validation Summary Report (VSR) or certificate number. This number refers to the VSR that was produced as a result of the testing. The VSR describes the testing environment and details any processor nonconformity that was detected as a result of the testing. Information for obtaining a VSR is listed in section 2.6.
- Derived processors in the VENDOR & COMPILER column are Ada processors that have been derived from the processor/hardware/operating system environment used during the testing. In order for derived processors to be listed here, they must be properly registered with the Department of Defense, Ada Joint Program Office (AJPO) by the vendor of the processor.
- The HARDWARE & OPERATING SYSTEM column presents the hardware and operating system environment (including pertinent supporting system software) used during the

validation. In the case of Ada processors, those environments for derived processors will appear in this column.

- The EXPIRY DATE column lists the expiration date of the Certificate of Validation. A processor may be included in the List after the certificate has expired if the validation is in process. Notification must be received by NIST at least 30 days prior to publication of the List in order for such a processor to be included. In this case the expiration date will be followed by "(pending)".
- For COBOL processors, the SUBSET column cites the applicable Federal Subset. For Fortran processors, the LEVEL column specifies the applicable Federal level. For Pascal processors, the ISO 7185 Pascal Standard Level (ISO 7185 Level 0 is equivalent to FIPS 109). This designation is presented in the PROCESSOR ID column.
- The entries in the OTHER ENVIR column are other hardware and operating system environments in which the processor operates. The vendor of the processor has certified that the identified processor, when operating under the environments included in this column, produces the same test results as those obtained from the hardware and operating system environment used during the validation. Test results and other information from these environments may be required as evidence for entries to be included in this column.
- The word "Yes" in the NONCONFORMITIES column indicates that the processor did not conform to the applicable FIPS in one or more cases as evidenced by the validation. The Validation Procedures allow for certain processors to be validated with nonconformities, with the stipulation that the nonconformities are corrected and the processor is revalidated within one year. The VSR should be reviewed for details of the nonconformities.

2.3 Validation of Processors

2.3.1 Validation Requirements

In accordance with the requirements referenced in Section 1.1, processors offered to the Government for purchase, lease, or use in connection with ADP services shall be validated for conformance to FIPS for programming languages. To confirm that the specifications of the designated FIPS have been met:

- a. the processor shall be tested with the Compiler Validation System (CVS) approved by NIST,
- b. the processor validations shall be conducted in accordance with NIST validation procedures,
- c. a Validation Summary Report (VSR) shall be produced summarizing the test results of the CVS on the designated processor for that FIPS,
- d. all nonconformities noted in the VSR shall be corrected within twelve months,
- e. a Certificate of Validation shall be issued if validation results warrant. In order for an Ada processor to receive a Certificate of Validation the processor must successfully pass all applicable tests of the Ada Compiler Validation Capability (ACVC) without exception.

The Federal ADP and Telecommunications Standards Index supplies standard terminology which may allow for delayed validation. When delayed validation is allowed, the offeror may meet this

requirement by showing evidence of having submitted the processor for validation. Proof of submission is in the form of a letter from NIST scheduling the validation.

Programming language processors offered to the Federal Government must comply with the applicable Government requirements. Failure to comply with these requirements shall be deemed sufficient cause to declare a bidder non-responsive or to declare a vendor in default for failure to deliver required software.

2.3.2 Placement in the List

For a processor to be placed in the List it must:

- a. have been officially validated within the past twelve calendar months, and
- b. have no errors remaining that were identified during a previous test.

2.3.3 Removal from the List

A processor is removed from the List when:

- a. the processor is not officially tested within twelve calendar months, or
- b. testing indicates that the processor still contains errors identified during a previous validation.

2.3.4 Validation Procedures

Validation procedures are published in the following documents:

Compiler Validation Procedures, dated February 1, 1990 Ada Compiler Validation Procedures and Guidelines, Version 2.1, August, 1990 Pascal Validation Policy and Procedures, Version 5.3, February 20, 1991

2.4 Certificate of Validation

A Certificate of Validation is issued for those programming language processors that have been tested and are considered to be in compliance with the FIPS as specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Index.

The requirement for retesting may be waived and the certificate of validation extended at the option of NIST if:

- a. no errors were identified during the previous testing of the processor,
- b. the vendor certifies, in writing, to NIST that no changes have been made to either the processor or the supporting system software, and
- c. no new version of the validation system has been officially released during the interim period.

2.5 Language Processor Validation Suites

Following are the validation suites and ordering information for testing programming language processors for conformance to FIPS.

a. Copies of the COBOL, Fortran, MUMPS, and Ada Compiler Validation Suites may be purchased from:

National Technical Information Service (NTIS) 5285 Port Royal Road Springfield, VA 22161 Telephone (703) 487-4650 (Voice) (703) 321-8547 (FAX)

COMPILER VALIDATION SYSTEM [MEDIUM/FORMAT]	VERSION	NTIS ACCESSION NUMBER
COBOL 85 (CCVS85)	3.1	PB91-508002
Fortran (FCVS78)	2.0	PB85-226736
Ada [Tape/Backup]	1.11	ADA212551
Ada [Tape/Tar]	1.11	ADA212437
Ada [Tape ANSI Standard]	1.11	ADA212548
Ada [Disk (MS/DOS)]	1.11	ADA212549
MUMPS [Tape/Backup]	7.61	PB91-507699
MUMPS [Tape/ANSI]	7.61	PB91-507715
MUMPS [Tape/Tar]	7.61	PB91-507723
MUMPS [Disk (MS-DOS)]	7.61	PB91-507707

b. The current version of the Pascal Validation System (PVS) is Version 5.4 and is available from:

British Standards Institution (BSI)
Software Engineering Department
BSI Quality Assurance
P. O. Box 375
Milton Keynes
MK14 6LL
ENGLAND
Telephone (011) +44-908-220908 (Voice)
(011) +44-908-220671 (FAX)

c. The current version of the ANSI C Validation Suite (ACVStm) is Version 3.0 and is available from:

Perennial, Inc. 4699 Old Ironsides Drive Suite 210 Santa Clara, CA 95054 Telephone (408) 748-2900 (Voice)

2.6 Testing Laboratories and Supporting Organizations

The organizations listed below have performed validations, supplied information, or are sources for Validation Summary Reports (VSR) for programming languages. These organizations may be contacted for validation information and for copies of VSR(s). COBOL and Fortran VSR(s) may be obtained from NIST. Pascal VSR(s) whose VSR numbers begin with "NIST" or end in "US" may also be obtained from NIST. Pascal VSR(s) whose VSR numbers end in "UK" are available from BSI. Ada VSR(s) may be obtained from the Ada Information Clearinghouse, the National Technical Information Service, or from the Ada Validation Facility (AVF) that produced the VSR. To obtain a copy of a VSR from an AVF, locate the upper case letter in the certificate number (e.g., $870608\underline{W}1...$). That letter corresponds to the letter in the CODE column to the left of the organizations listed below.

CODI	<u>ORGANIZATION</u>	CONTACTS	LANGUAGE
S	National Institute of Standards and Technology Software Standards Validation Group Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3274 Telex: 197674 NBS UT Telecopier: (301) 590-0932	L. Arnold Johnson Judy Kailey Woody Schneider Kathryn Miles William Dashiell Carmelo Montanez	All COBOL, Fortran BASIC, C Pascal, C Ada, MUMPS, SQL Ada, MUMPS, C GKS
N	National Computing Centre Limited (NCC) Oxford Road Manchester M1 7ED ENGLAND (011) +44 (61) 228 6333 +44 (61) 236 4715 (FAX) Telex 668962	Jane Pink Jon Leigh David Bamber	COBOL Fortran Ada GKS
	Gesellschaft für Mathematik und Datenverarbeitung mbh (GMD) HLRZ.VIS Schloss Birlinghoven D-W-5205 St Augustin 1 Germany (011) +49-2241-14-2706 (voice) (011) +49-2241-14-2618 (FAX) kirsch @gmdzi.gmd.de	Berthold Kirsch	Fortran GKS
	Bureau Inter Administration de Documentation Informatique (BIADI) 21 Rue Bara 92132 Issy France	E. Bialot	COBOL Fortran
	Instituto Italiano del Marchio di Qualita (IMQ) Via Quintiliano, 43 20138 Milano Italy +39-2-5073266	Angelo Belloni	COBOL Fortran

JMI Institute Y. Fukui COBOL 21-25, Kinuta 1-Chome Fortran Setagaya-Ku, Tokyo 157 Japan +81 3 3416 9600 British Standards Institution (BSI) John Souter Pascal P.O. Box 375 Milton Keynes MK14 6LL **ENGLAND** (011) + 44 0908 - 220908Telex: 827682 BSIQAS G Ada Validation Facility Bobby Evans Ada Language Control Facility ASD/SCEL Wright-Patterson AFB, OH 45433-6503 (513) 255-4472 **BNI-AVF** Fabrice Garnier Ada **AFNOR** de Labareyre Tour Europe, Cedex 7 92080 Paris La Defense FRANCE (011) 33-142915960 Telefac: (011) 33-142915656 Telex: AFNOR 611 974 F Michael Tonndorf **IABG-AVF** Ada Industrieanlagen-Betriebsgesellschaft Dept. ITE Einsteinstrasse 20 D-8012 Ottobrunn Federal Republic of Germany +49-89-6088-2477 e-mail: tonndorf@ajpo.sei.cmu.edu Ada Information Clearinghouse Ada VSR(s) 3D139 1211 S. Fern, C-107 The Pentagon Washington, D.C. 20301-3081 (703) 685-1477 National Technical Information Service Ada VSR(s) U.S. Department of Commerce 5285 Port Royal Road Springfield, VA 22161

W

В

or

Α

I

(703) 487-4650

2.7 COBOL PROCESSORS

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET		NONCON- PRMITIES
Amdahl Corporation	Micro Focus COBOL/2 for Unix Version 1.2 NIST-91/1964	Amdahl 5990-1400 UTS Version 2.1, Release 1	8/1/92	High	Amdahl 73xx, 580-xxx, 58xx, 5990-xxx, 5995-xxx UTS Version 2.1 Release 1	Yes
Bull HN	COBOLM Release 2.1	DPS 6000 Model 634 GCOS6 HVS Version 2.0	2/1/93	High	DPS6/EMMU GCOS6 Mod 400 Release 4.1 DPS6 PLUS HVS6 PLUS Version 2.0 DPS 6000 GCOS6 HVS Version 2.0	Yes
	COBOL 85 Version 8C83.0 NIST-92/1681	DPS-90 GCOS8 Version 4020 Release 3	7/1/93	High	DPS-9000, DPS-8000 GCOS8 Version 4020 Release 3	
Bull/SA	COBOL/2 Release 1.2 BIA-91/001	DPX/2 210 BOS Version 20	7/1/92	High	DPX/2 200 Series; 300 Series BOS Version 2.0	Yes
Computer Associates	CA-Realia COBOL Version 4.2 Release V NIST-92/1261	IBM PS/2 Model 80 OS/2 Version 1.3	2/1/93	Intermediate	IBM PS/2 Model 55SX, 60, 70, 90, 95 OS/2 Version 1.3 IBM PS/2 Model 55SX, 60, 70, 80, 90, 95 OS/2 Version 1.21	
	CA-Realia COBOL Version 4.2 Release V NIST-92/1262	Compaq Deskpro 386 MS/DOS Version 5.0	2/1/93	Intermediate	Compaq Systempro, Deskpro 386, Portable 386, Portable III MS-DOS Version 2.1 thru 5.0	
Control Data Corporation	COBOL/VE Version 2.0 Release 91324 NIST-92/1101	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	1/1/93	High	CYBER 180 Series; CYBER 2000 NOS/VE Version 1.6.1 Level 780	
	MicroFocus COBOL/2 Version 1.2 NIST-92/1102	Control Data 4680 MP EP/IX Version 1.4.2	1/1/93	High	Control Data 4000 Series EP/IX Version 1.4.2	Yes
Digital Equipment Corporation	VAX COBOL Version 4.4 NIST-90/2201	VAX 8800 VAX/VMS Version 5.4	11/1/92	High	VAX 6000 Mod 200, 300, 400 VAX 8200, 8250, 8300, 8350, 8500, 8530, 8550, 8600, 8650 8700, 8800, 8810, 8820, 8830 8840, 8842, 8974, 8978, 9000 MicroVAX II, 2000, 3100, 3300 3400, 3500, 3600, 3800, 3900 VAXstation II, 2000, 3100, 320 3500, 3520, 3540, 8000; VAX- server 3100, 3300, 3400, 350 3600, 3602, 3800, 3900, 6000 210, 6000-310, 6000-410, 600 420; VAX/VMS Version 5),),);),););)00, -

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET		NONCON- RMITIES
Hewlett-Packard Company	COBOL/HP-UX Version B.07.00 NIST-92/1661	HP 9000 Series 370 HP-UX Version 8.0	5/1/93	High	HP 9000 Series 318, 319, 320, 330, 332, 340, 350, 360, 370, 375, 400, 425 HP-UX Version 8.0	Yes
	COBOL/HP-UX Version B.06.25 NIST-92/1662	HP 9000 Series 850 HP-UX Version 8.0	5/1/93	High	HP 9000 Series 815, 822, 825, 832, 807, 817, 827, 834, 835, 837, 842, 845, 847, 850, 852, 855, 857, 860, 865, 867, 870, 877, 635, 645, 870/200, 870/300, 870/400, 720, 730, 750, 705, 710 HP-UX Version 8.0	
	COBOLII/iX Version A.04.06 NIST-92/1663	HP3000 Series 930 MPE XL Version A.40.00	5/1/93	High	HP3000 Series 917, 920, 922, 925, 927, 932, 935, 937, 947, 948, 949, 950, 955, 957, 958, 960, 967, 980/100, 980/200 MPE XL Version A.40.00	
IBM Canada, Ltd.	AIX PS/2 VS COBOL Compiler & AIX PS/2 VS COBOL Runtime Environment Version 1.10.0120 Release 1 NIST-91/1901	AIX for PS/2 Version 1.1	8/1/92	High	IBM PS/2 VS Models 60, 70, 80 AIX for PX/2 Version 1.1	Yes
	COBOL/400 Version 2 Release 1.* NIST-91/2341	AS/400 OS/400 Version 2 Release 1.1	11/1/92	Intermediate		
IBM Corporation	IBM SAA AD/CYCLE COBOL/370 Version 1 Release 1 NIST-92/1021	IBM 3090 MVS/ESA Version 3	12/1/92	High	IBM 390, 3000, 4381-T92, 9000 MVS/ESA Version 3	
	IBM SAA AD/CYCLE COBOL/370 Version 1 Release 1 NIST-92/1022	IBM 3090 VM/ESA Version 1.0	12/1/92	High	IBM 390, 3000, 4381-T92, 9000 VM/ESA Version 1.0	
Liant Software Corporation	RM/COBOL-85 Version 5.00.00 NIST-90/2101	IBM PS/2 Model 80 PC/DOS Version 4.01	10/1/92	High		
	RM/COBOL-85 Version 5.00.00 NIST-90/2102	NCR PC925 SCO Unix System V/386 Release 3.20	10/1/92	High	NCR PC925 Interactive Unix System V/386 Release 2.2	
	RM/COBOL-85 Version 5.00.00 NIST-90/2103	NCR PC486/MC AT&T Unix V.4 Version i386 Release 0.00.00.08	10/1/92	High		
	RM/COBOL-85 Version 5.00.00 NIST-90/2104	IBM RISC System/6000 AIX Version 3	10/1/92	High		

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
	RM/COBOL-85 Version 5.00.00 NIST-90/2106	HP 9000 Model 325 HP-UX Version 7.0	10/1/92	High		
	RM/COBOL-85 Version 5.00.00 <i>NIST-90/2107</i>	HP 9000 Model 825 HP-UX Version 7.0	10/1/92	High		
mbp Software and Systems GmbH	Visual COBOL XO Version 3.0 NIST/NCC-91/956	IBM AT MS DOS Version 3.3	9/1/92	High		
	Visual COBOL XO Version 3.0 NIST/NCC-91/957	Convergent Server PC (CTIX 386) UNIX System V/386 Release 3.2	9/1/92	High	Unisys 6000/50 Prime EXL-316 Unix V/386 Release 3.2	
Micro Focus	Micro Focus COBOL Version 3.0 NIST-92/1961	IBM PS/2 Model 80 OS/2 Version 1.3 IBM PS/2 Model 70 IBM DOS Version 5.0 IBM PS/2 Model 90 IBM OS/2, Version 2.0 Compaq Deskpro Microsoft OS/2, Version 1.21	8/1/93	High	IBM PS/2 80 OS/2 Version 2.0 IBM PS/2 60, 65SX, 70 OS/2 Version 1.3 IBM PS/2 60, 65SX, 80 DOS Version 5.0 IBM PS/2 60, 65SX, 70, DOS Version 4.0 IBM PS/2 60, 65SX, 70, DOS Version 3.3	
	Micro Focus COBOL for AIX Version 3.0 (IBM RS/6000) NIST-92/1963	IBM RS/6000 Powerstation 320 AIX Version 3.2	8/1/93	High		
	Micro Focus COBOL for UNIX Version 3.0 (Intel 80386/80486 running UNIX) NIST-92/1964	Compaq Deskpro 386/25 SCO UNIX Version v/386 Release 3.2	8/1/93	High		
	Micro Focus COBOL/2 for Unix Version 1.2 (Digital DECStation) NIST-92/1965	Digital DECStation Ultrix, Version 4.0	8/1/93	High		Yes
	Micro Focus COBOL/2 for Unix Version 1.2 (Motorola 88000) NIST-92/1966	Motorola Delta 88000 UNIX, Version v/88 Release R32v2	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (MIPS) NIST-92/1967	MIPS Magnum MIPS/OS Version 4.52	8/1/93	High		Yes

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
	Micro Focus COBOL/2 for UNIX Version 1.3 (Intel 80386/80486 running UNIX) NIST-92/1968	UNISYS 6000-50 UNIX Version v/386 Release 4.0.2	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (Amdahl) NIST-92/1969	Amdahl 5880-P142 UTS Version 2.I	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Version 1.3 (Data General AViion) NIST-92/1964	Data General AViion DG/UX Version 5.4	8/1/93	High		Yes
	Micro Focus COBOL for AIX Version 1.3 (IBM AIX/370) NIST-92/196B	IBM 4381 AIX Version I.2	8/1/93	High		Yes
	Micro Focus COBOL/2 for UNIX Ver 1.3 (NCR 3000 running UNIX SVR4) NIST-92/196C	NCR System 3000 UNIX System, Version v/386, Release 4.0 Version 2	8/1/93	High		Yes
	Micro Focus COBOL for AIX Version 1.3 (IBM PS/2) NIST-92/196D	IBM PS/2 Model 80 AIX, Version I.2	8/1/93	High		Yes
Microsoft Corporation	Microsoft COBOL Version 5.0 NIST-92/1%2	IBM PS/2 Model 60 IBM DOS Version 5.0	8/1/93	High	IBM PS/2 Model 80 DOS Version 3.3	
		Compaq Deskpro Microsoft DOS, Version 4.01				
NCR Corporation	Micro Focus COBOL/2 for UNIX Version 1.2 NIST-91/1965	NCR PC 486/MC25, Model 3314 UNIX System V/386 Release 4.0 Version 2	8/1/92	High	NCR 3320, 3321, 3340, 3341, 3345, 3347, 3445, 3447, 3450 UNIX System V/386 Release 4.0 Version 2	Yes
Prime Computer, Inc.	COBOL85 Version 1.1.1-22.0 NIST-90/228I	P9955 - 64V mode machine architecture PRIMOS Version 22.1.3	12/1/92	Intermediate	Prime 50-Series machines 64V-mode machine architecture PRIMOS Version 22.I.I	•
Pyramid Technologies, Corp.	COBOL85 Version 5.1 Release 92a030 NIST-91/1861	MIServer OSx Version 5.1a Release 92a030	3/1/93	High	Pyramid 9000; 98x OSx Version 5.1a Release 92a0	30

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	SUBSET	OTHER ENVIR HW/OS	NONCON- FORMITIES
Siemens Nixdorf Informations- systeme AG	COBOL85 Version 2.0A NIST/NCC-92/958	7.592l BS2000 Version 10.0	2/1/93	High		
Tandem Computers Inc.	COBOL85 Version D10 NIST-92/1462	Nonstop CLX Guardian 90 Version D00	5/1/93	High	NonStop Cyclone and Cyclone/R; NonStop VLX and CLX/R Guardian 90 Version D00	Yes
UNISYS Corporation	A Series COBOL ANSI-85, Mark 4.0 2.0 NIST-91/2211	Unisys A10 MCP/AS MARK 4.0	10/1/92	High	Unisys Micro A, A1, A2, A A4, A5, A6, A9, A10, A12, A15, A16, A17, A19; MCP/AS MARK 4.0	3,
Wang Laboratories, Inc.	VS COBOL 85 Version 2.12.01 NIST-91/2381	WANG VS 100 VS OS Version 7.30.00	11/1/92	High	VS 5, 6, 15, 25, 45, 65, 85 90, 100, 300; 5000, 7000, 8000, 10000 Series <i>VS OS Version 7.20.00</i> VS 300; 7000, 8000, 1000 Series <i>VS OS Version 7.30.00</i>	

2.8 FORTRAN PROCESSORS

VENDOR	PROCESSOR ID	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONCON- HW/OS FORMITIES
Alliant Computer Systems Company	FX/Fortran Version 4.3 NIST-91/2301	FX/80 Concentrix Version 5.7 with linker/loader:ld version 5.7 libfortran.a version 6.0	11/1/92	Full	FX/1, FX/4, FX/8, FX/40, FX/82; VFX/4, VFX/40, VFX/80, VFX/82 Concentrix Version 5.7
	FX/Fortran Version 1.2 NIST-91/2302	FX/2800 Model 400 Concentrix Version 2.1.02 with linker/loader:ld ver. 2.1.02	11/1/92	Full	FX/800, SRM/1 Models 200 and 400 Concentrix Version 2.1
Amdahl Corporation	Amdahl Fortran 77 Version 10 Level 31 NBS/ICST-88/3561A	Amdahl 5860 IBM MVS/SP Version 2.2.0	12/1/92	Full	Amdahl 580, Amdahl Vector Processor IBM MVS/SP Version 2
	Amdahl Enhanced Fortran 77 Version 10 Level 31 NBS/ICST-88/3565A	Amdahl 5860 UTS Version 1.2	12/1/92	Full	Amdahl 580, 5890, 5990 UTS Version 1.2
	Amdahl Fortran 77/VP Version 10 Level 30 NBS/ICST-88/35624	Amdahl 1200E IBM MVS/SP Version 2.2.0	12/1/92	Full	Amdahl 580 Amdahl Vector Processor 1BM MVS/SP Version 2
Bull HN	FORTRANA Release R3.1 NIST-92/1202	DPS 6000 Model 634 GCOS6 HVS Version 2.0	2/1/93	Full	DPS6/EMMU GCOS6 MOD 400 Release 4.1 DPS6 PLUS HVS6 PLUS Version 2.0 DPS 6000 GCOS6 HVS Version 2.0
	Fortran 77-ESV Version 8FV4.1 NIST-92/1682	DPS-9000E GCOS8 Version SR40203	7/1/93	Full	DPS-90, DPS-8000 GCOS8 Version SR40203
	Fortran SXL-3001 Version 01.00 <i>BLA/90/001</i>	DPX/2 210 B.O.S. Versions 01.01 and 02.00	11/15/92	Full	DPS/2 200 and 300 B.O.S. Versions 01.01 and 02.00
Concurrent Computer Corporation	SP-2450 (Fortran 77) Version 2 Release 1 NIST-92/1501	7100 RTU 6.1	6/1/93	Full	7400, 7500, 7200, 7502 RTU Version 6.1 6300, 6350, 6400, 6450, 6600, 6605, 6650, 6652, 6655, 6700, 6705, 6750, 6752 RTU Version 6.0
	SP-2450 (Fortran 77) Version 2 Release 2 NIST-92/1504	8500/4 RTU 6.04	6/1/93	Full	8450, 8550, 8400 RTU Version 6.0A
	Fortran VII Z Version R06 Release 01 NIST-92/1502	3280 MPS OS/32 Version R09 Release 01	6/1/93	Full	3205, 3210, 3220, 3230, 3240, 3250, 3230XP, 3250XP, 3280XP, 3230MPS, 3260MPS, 3280E MPS; Micro 3200CS*, Micro 3200ES*, Micro 3200 MPS* OS/32 Version R09 Release 01

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONCON- HW/OS FORMITIES
	Fortran VII O Version R06 Release 01 NIST-92/1503	3280 MPS OS/32 Version R09 Release 01	6/1/93	Full	3205, 3210, 3220, 3230, 3240, 3250, 3230XP, 3250XP, 3280XP, 3230MPS, 3260MPS, 3280E MPS; Micro 3200CS*, Micro 3200ES*, Micro 3200 MPS* OS/32 Version R09 Release 01
Control Data Corporation	Fortran/VE 1 Version 1.7 Level 780 NIST-92/1421	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	4/1/93	Full	CYBER 180 Series; CYBER 2000 NOS/VE Version 1.6.1 Level 780
	Fortran/VE 2 Version 2.6 Level 780 NIST-92/1422	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	4/1/93	Full	CYBER 180 Series; CYBER 2000 NOS/VE Version 1.6.1 Level 780
	Fortran 77 Version 2.2.0 NIST-92/1103	Control Data 4680 MP EP/IX Version 1.4.2	1/1/93	Full	Control Data 4000 Series EP/IX Version 1.4.2
	Peak Fortran Version 1.1 NIST-92/1104	Control Data 4680 MP EP/IX Version 1.4.2	1/1/93	Full	Control Data 4000 Series EP/IX Version 1.4.2
Convex Computer Corporation	Convex Fortran Version 7.0 NIST-92/1521	Convex C3820 Convex OS Version 10.0	4/1/93	Full	Convex C38 Series Convex OS Version 10.0
	Convex Fortran Version 7.0 NIST-92/1522	Convex C240 Convex OS Version 10.0	4/1/93	Full	Convex C1, C2, C32 Series Convex OS Version 9.1
	Convex Fortran Version 7.0 NIST-92/1523	Convex C3420 Convex OS Version 10.0	4/1/93	Full	Convex C34, 31, 53 Series Convex OS Version 10.0
Cray Research, Inc.	CF Compiling System Release 5.0.1 NIST-92/1221	Cray X-MP UNICOS Release 6.1.5A	3/1/93	Full	Cray X-MP EA & Y-MP Series in X-mode UNICOS Release 6.1.5A
	CF77 Compiling System Release 5.0.1 NIST-92/1222	Cray Y-MP/832 UNICOS Release 6.1.5A	3/1/93	Full	Cray Y-MP Series; Cray X-MP EA Series UNICOS Release 6.1.5.4
	CF77 Compiling System Release 5.0.1 NIST-92/1223	Cray-2S 4/128 UNICOS Release 6.1.5A	3/1/93	Full	Cray-2S Series; Cray-2 Series UNICOS Release 6.1.5A
Digital Equipment Corporation	DEC Fortran Version 3.1 NIST-91/2025	DECstation 5000 Ultrix Version 4.2	10/1/92	Full	Decstation 2100 3100 3100S; 5000 Mod 200 200CX 200PX 200PXG 200PXG Turbo; DECsystem 3100 5000 Mod 200 5100 5400 5500 5810 5820 5830 5840 Ultrix Version 4.2

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY M DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	DEC Fortran Version 3.1 NIST-91/2026	DECstation 3100 Hercules/1 Version 1.0	10/1/92	Full	Decstation 2100 3100 5000 Mod 200 200CX 200PXG 200PXG Turk DECsystem 3100 500 200 5100 5400 5500 9 5820 5830 5840 Hercules/1 Version 1.0	200PX po; 0 Mod
	VAX Fortran Version 5.7 NIST-91/2021	VAX 6000-420 VMS Version 5.4	10/1/92	Full	VAX 4000 Mod 200 30 Series 200 300 400 51 8250 8300 8350 85xx 8650 8700 8800 8810 8830 8840; 9000 Mod Ser 400; VAXft 3000-3 VAX-11/730/750/780, MicroVAX II 2000 310 3400 3500 3600 3800 VAXstation II 2000 310 3500 3520 3540; VAX 3100 3300 3400 3500 3602 3800 3900 4000 200 300; 6000 Mod 2 310/320 410/420 510 VMS Version 5.4	00; 8200 8600 8820 1 210 810; /785; 0 3300 3900; 00 3200 -server 1 3600 1 Mod 10/220
	VAX Fortran HPO Version 1.3 NIST-91/2022	VAX 6000-420 VMS Version 5.4	10/1/92	Full	VAX 4000 Mod 200 30 Series 200 300 400 55 8250 8300 8350 85xx 8650 8700 8800 8810 8830 8840; 9000 Mod Ser 400; VAXft 3000-3 VAX-11/730/750/780 MicroVAX II 2000 310 3400 3500 3600 3800 VAXstation II 2000 310 3500 3520 3540; VAX 3100 3300 3400 3500 3602 3800 3900 4000 200 300; 6000 Mod 2 310/320 410/420 510 VMS Version 5.4	00; 8200 8600 8820 1 210 310; /785; 0 3300 3900; 00 3200 -server 1 3600 1 Mod 10/220
	VAX Fortran HPO Version 1.3 NIST-91/2023	VAX 6000-420 VP VMS Version 5.4	10/1/92	Full	VAX 4000 Mod 200 30 Series 200 300 400 50 8250 8300 8350 8500 8550 8600 8650 8700 8810 8820 8830 8840 210 -400 -420 -430 -4 VAXft 3000-310; VAX- 11/730/750/780/785; MicroVAX II 2000 310 3400 3500 3600 3800 VAXstation II 2000 311 3500 3520 3540; VAX 3100 3300 3400 3500 3602 3800 3900 4000 200 300; 6000 Mod 2 310/320 410/420 510 VMS Version 5.4	00; 8200 8530 8800 ; 9000- 40; ; 0 3300 3900; 00 3200 -server 3600 Mod 10/220

VENDOR	PROCESSOR ID & VSR #	HARDWARE & DPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	VAX Fortran Ultrix Version 5.1 NIST-91/2024	VAX 6000-420 Ultrix Version 4.2	10/1/92	Full	VAX 4000 Mod 200 30 Series 200 300 400 50 8250 8300 8350 85xx 8 8650 8700 8800 8810 8 8830 8840; 9000 Mod Ser 400; VAXft 3000-3* VAX-11/730/750/780/ MicroVAX II 2000 3100 3400 3500 3600 3800 3 VAXstation II 2000 310 3500 3520 3540; VAX-3100 3300 3400 3500 3602 3800 3900 4000 200 300; 6000 Mod 21 310/320 410/420 510/ VMS Version 5.4	0; 8200 8600 8820 210 10; 785; 3300 3900; 0 3200 server 3600 Mod 0/220
Edinburgh Portable Compilers LTD	EPC Fortran 77 Version 2.5 NIST/NCC-90/945	Solbourne Series 5/500 w/Sparc Processor Sun OS Version 4	11/1/92	Full	Solbourne Series 5/60 5/800, 5E/900, S/4000 Sun OS Version 4	
	EPC Fortran 77 Version 2.5 NIST/NCC-90/947	ICL DRS IXP 95 w/80486/80487 ICL DRS/NX V.4.0 (IXP) Unix	11/1/92	Full		
	EPC Fortran 77 Version 2.5 NIST/NCC-90/948	ICL DRS 6000 ICL DRS/NX V.4.0 UNIX	11/1/92	Full		
Encore Computer Corporation	Parallel Fortran + Version 1.1 NIST-92/1544	Encore 93 UMAX V Version 3.1	4/1/93	Full	Encore 91 UMAX V Version 3.0.6	
	Parallel Fortran+ Version 1.1 NIST-92/1543	Encore 91 UMAX V Version 3.0.6	4/1/93	Full	Encore 93 UMAX V Version 3.1	
	Fortran-77 + Version 5.1 <i>NIST-92/1541</i>	Concept 32/97 MPX-32 Version 3.5u02	4/1/93	Full	Concept 32/67, 32/20 Encore RSX MPX-32 Version 3.5u02	xx,
	GCF Version 2.0 NIST-92/1542	Concept 32/97 MPX-32 Version 3.5u02	4/1/93	Full	Concept 32/67, 32/20 Encore RSX MPX-32 Version 3.5u02	xx,
Fujitsu America, Inc.	Fortran 77-M Version 10 Level 31 NBS/ICST-88/3561	Amdahl 5860 IBM MVS/SP Version 2.2.0	12/1/92	Full	Amdahl 580; Amdahl Vector Process IBM MVS/SP Version 2	sor
	Fortran 77/VP-M Version 10 Level 30 NBS/ICST-88/3562	Amdahl 1200E IBM MVS/SP Version 220	12/1/92	Full	Amdahl Vector Proces Amdahl 580 IBM MVS/SP Version 2	sor;

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONCOL HW/OS FORMITIE
	Fortran 77 Version 10 Level 31 NBS/ICST-88/3563	Amdahl 1200E VSP Version 10	12/1/92	Full	FACOM M FACOM OS IV/F4 MSP Edition 20 FACOM VP; Amdahl Vector Processor VSP Version 10
	Fortran 77/VP Version 10 Level 30 NBS/ICST-88/3564	Amdahl 1200E, FACOM VP VSP Version 10	12/1/92	Full	FACOM M FACOM OS IV/F4 MSP Edition 20 FACOM VP; Amdahl Vector Processor VSP Version 10
	UTS Fortran 77 Version 10 Level 31 NBS/ICST-88/3565	Amdahl 5890 UTS Version 1.2	12/1/92	Full	Amdahl 580 UTS Version 2.0 FACOM M UTS/M Version 10 FACOM S3000 UTS/S Version 10
	UXP/M Fortran77 EX/VP Version 12 Level 10 NIST-91/1601	Fujitsu VP2400/10 UXP/M Version 10 Level 10	2/1/93	Fuil	Fujitsu VP2000 Series UXP/M Version 10 Level 10
	UXP/M Fortran77 EX Version 12 Level 10 NIST-91/1602	Fujitsu VP2400/10 UXP/M Version 10 Level 10	2/1/93	Full	Fujitsu VP2000 Series Fujitsu M Series UXP/M Version 10 Level 10
HNSX Supercomputers, Inc.	Fortran77/SX (f77sx) Release 020 NIST-92/1161	NEC SX-3 Model 12 SUPER-UX Release 1.22	1/1/93	Full	NEC SX-3 Series; HNSX SX-3 Series SUPER-UX Release 1.22
Hewlett-Packard Company	HP Fortran 77/HP/UX Version A.08.14 NIST-92/1081	HP9000 Model 835 HP-UX Version A.08.00	1/1/93	Full	HP9000, Models 815, 825, 840, 850, 855, 870 HP-UX Version A.08.00
	HP 9000 S700 Fortran 77 Version A.08.05 NIST-92/1083	HP9000 Model 750 HP-UX Version 8.05	1/1/93	Full	HP9000, Models 730, 720 HP-UX Version 8.05
	HP 9000 S300 Fortran 77 Version B.08.00 N1ST-92/1084	HP9000 Model 425 HP-UX Version 8.00	1/1/93	Full	HP9000, Models 400, 433, 345, 380, 385 <i>HP-UX Version</i> 8.00
	HP Fortran 77/XL Version 4.30 NIST-92/1085	HP3000 Model 930 MPE XL Version A.50.10	1/1/93	Full	HP3000, Models 925, 935, 950, 955, 970 MPE XL Version A.50.10
IBM Canada, LTD	IBM AIX XL Fortran Compiler/6000 Version 2 Release 2 NIST-92/1341	IBM RISC System/6000 Powerstation 530 IBM AIX Version 3 Release 2	3/1/93	Full	IBM RISC System/6000 Powerstation/Powerserver Mods 220, 320H, 340, 350, 520H, 530, 530E, 540, 550, 560, 560F, 730, 930, 950 AIX for RISC System/6000 Version 3 Release 2

VENDOR	PROCESSOR ID & VSR # (HARDWARE & DPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONCON- HW/OS FORMITIES
	IBM AIX Fortran Compiler/6000 Version 2 Release 2 NIST-91/2201	IBM AIX RISC System /6000 POWERstation Model 540 AIX V3 for RISC System/6000 Version 3 Release 1	8/1/92	Full	RISC System/6000 Power- station 320, 320H, 530, 730, 550; Powerserver 320, 520, 530, 540, 930, 950 AIX V3 for RISC System/6000 Version 3 Release 1
IBM Corporation	VS Fortran Version 2 Release 5 NIST-91/1921	IBM 4381 VM/SP Version 1 Release 5	8/1/93	Full	S/370 30xx, 43xx, 93xx, S/390, ES/9000 VM/XA Version 1, Rel 1, 2 VM/ESA Version 1, Rel 1, 1.1
	VS Fortran Version 2 Release 5 NIST-91/1922	IBM S/370 3090 MVS/SP Version 4 Release 2	8/1/93	Full	S/370 30xx, 43xx, 93xx, S/390, ES/9000 MVS/SP Version 1, Release 3 MVS/SP Version 2, Release 2 MVS/SP Version 3, Release 1
	VS Fortran Version 2 Release 5 NIST-90/1823	IBM 3090 AIX/370 Version 1 Release 2	8/1/93	Full	S/370, 30xx, 43xx, 93xx AIX/370 Version 1, Release 2
Intergraph Corporation	CLIPPER Advanced Optimizing Fortran, Version 1.40 NIST-92/1041	CLIPPER IS4000 CLIX, Version 5.7.3	12/1/92	Full	CLIPPER C300 and C400 Series CLIX, Version 5.7.3
Language Systems Corporation	Language Systems Fortran Version 3.0 NIST-91/2101	Apple Macintosh Ilfx Macintosh OS Version 7.0	9/1/92	Full	Apple Macintosh Ilcx Macintosh OS Version 7.0
Liant Software Corporation	Fortran/400, Version 1 Release 3 NIST-92/1181	IBM AS/400 B4500 IBM OS/400, Version 1	1/1/93	Full	
	Fortran/400, Version 2 Release 1 NIST-92/1182	IBM AS/400 B4500 IBM OS/400, Version 2	1/1/93	Full	
Microsoft Corporation	Microsoft Fortran Version 5.1 NIST-91/1841	IBM PS/2 Model 80/386, 80387 math co-processor MS-DOS Version 5.0	7/1/93	Full	
		COMPAQ DESKPRO 486/25 OS/2 Version 1.2			
		COMPAQ 286, 80287 math co-processor DOS Version 3.31			
		Everex 386, 80287 math co-processor DOS Version 3.31			

VENDOR	PROCESSOR ID & VSR # C	HARDWARE & DERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONC HW/OS FORMIT	
MIPS Computer Systems, Inc.	Mips Fortran Version 3.0 Release 3.0 NIST-92/1121	M/120 RISC/os Version 5.0 Release 5.0	1/1/93	Full	M/500, M/800, M/1000, M/2000, M/120, RC3260, RC3260G, RC3240, RC3330, RS3330, RC3350, RC3360, RC2030, RS2030, RC3230, RS3230, RC6260, RC6280, RC6280(scsi base) RISC/os Version 5.0 Rel 5.0	
Modular Computer Systems	MODCOMP GLS-F77 Release A.0 NIST-89/1961	MODCOMP 9730 REAL/IX Release A.0	9/1/92	Full	MODCOMP 9720, 9740 REAL/IX Release A.0	
	MODCOMP Fortran 77/32 Release B.2 NIST-89/1962	MODCOMP 32/87 MAX 32 Release D.0	9/1/92	Full	MODCOMP 32/85, 9230, 9250 MAX 32 Release D.0	
	MODCOMP Fortran 77/16 Release B.2 NIST-89/1963	MODCOMP Classic 7860 MAX IV Release K.0	9/1/92	Full	MODCOMP 32/85, 32/87, 9230, 9250 MAX IV Release K.0	
Olivetti Systems & Networks s.r.l.	Green Hills Fortran 77 Release 1.1 IMQ/FCVS-001/91	Olivetti LSX 5010 Unix System V R4.0 Version 2.0	12/12/92	Full	LSX 5000, M4xx, M3xx, M380/XP9 Unix System V R4.0 Version 2	
Prime Computer, Inc.	Fortran 77 Release T3.0-23.0 NIST-91/1721	Prime Model 9955 Primos Revision 23.0	5/1/93	Full	2350 2450 2355 4050 4150 4450 6150 6350 6550 2550 2655 2755 9650 9655 9750 9755 9950 9955-II 5310 5320 5330 5340 w/32IX-mode arch.; 2350 2450 2355 4050 4150 4450 6150 6350 6550 2250 2550 2655 2755 9650 9655 9750 9755 9950 9955-II 750 850 5310 5320 5330 5340 w/32I-mode arch. 2350 2450 2355 4050 4150 4450 6150 6350 6550 2250 2550 2655 2755 9650 9655 9750 9755 9950 9955-II 750 850 5310 5320 5330 5340 w/64V-mode arch. PRIMOS Revision 23.0	
Salford Software Limited	FTN77/386 Version 2.60 NIST/NCC-91/951	Olivetti M380/XPI MS DOS Version 5.00	9/16/92	Full	Compaq Deskpro 386/16, 386/20, 386/25, 386/33; Dell 310, 320, w/A02 BIOS, G03 m/board, 325; HP Vectra RS/20; IBM Models 70, 80; Toshiba T5100, T5200, 3200SX; Tandon 386, 386SX MS-DOS Ver. 3.30, 4.01, 5.00	

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR NONCON- HW/OS FORMITIES
	FTN77/486 Version 2.60 NIST/NCC-91/952	TANDON 486SL MS-DOS Version 5.00	9/16/92	Full	Compaq 486; Dell 425; HP Vectra/486; Olivetti CP486/25 Research Machines VX-486 MS-DOS Ver. 3.30, 4.01, 5.00
	FTN77/ix Version 1.12 NIST/NCC-91/953	Elonex 386S-200 SCO UNIX System V/386 Release 3.2	9/16/92	Full	Compaq Deskpro 386/16, 386/20, 386/25, 386/33; Compaq 486; Dell 425; SCO UNIX System V/386 Release 3.2
	PRIME (I-mode) FTN77I Version 233 NIST/NCC-91/954	Prime 9955 Model I PRIMOS Revision 21.0.5q	9/16/92	Full	Prime 50-series w/l-mode instruction set Primos Revision 19.0 to 21.0.5q
	PRIME (V-mode) FTN77 Version 233 NIST/NCC-91/955	Prime 9955 Model I PRIMOS Revision 21.0.5q	9/16/92	Full	Prime 50-series w/V-mode instruction set Primos Revision 19.0 to 21.0.5q
Siemens Nixdorf Informations- systeme AG	FOR1 V2.2A GMD/VAL-92-003	Siemens 7.592-l BS2000 V10.04	12/31/92	Full	
	Sinix Fortran 77 V1.2B GMD/VAL-92-009	RM600 Sinix-P V5.41	12/31/92	Full	
	Sinix Fortran 77 V1.1A/V1.2A/V1.2B GMD/VAL-91-009	MX500-F Sinix-F V5.21 MX300-H Sinix-H V5.23 MX300-L Sinix-L V5.4 WX200-K Sinix-ODT V1.5	2/1/93	Full	
Silicon Graphics Computer Systems Inc.	Fortran 4D77 Release S4-FTN 1-4.0 NIST-91/1201	IRIS 4D/25 IRIX 4D1-4.0	3/1/93	Full	IRIS 4D/20, 4D/25, 4D/35, 4D/70, Power Series IRIX 4D1-4.0
Sun Microsystems, nc.	Sun Fortran (FOR-1.4-4-3-5) Version 1 Release 4 NIST-91/1301	SUN-3/80 w/MC 68882 SUNOS (SM3-07) Version 4 Release 1	3/1/93	Full	SUN-3/470, SUN-3/480; SUN-3/60, SUN-3/180, SUN 3/260 w/MC 68882 SUNOS (SM3-07) Version 4 Release 1
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1302	SPARCstation 2 (SUN- 14/75) w/FPU (TI TMS390C602A) SUNOS (SS2-07) Version 4 Release 1	3/1/93	Full	SPARCserver 2 (SUN-4/75X) w/FPU (TI TMS390C602A) SUNOS (SS2-07) Version 4 Release 1
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1303	SPARCserver 330 (SUN- 14/330) w/FPU2 (TI 8847) SUNOS (SS2-07) Version 4 Release 1	3/1/93	Full	SPARCserver 470 (SUN- 4/470) w/FPU2 (TI 8847) SUNOS (SS2-07) Version 4 Release 1

VENDOR	PROCESSOR ID & VSR #	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	LEVEL	OTHER ENVIR HW/OS	NONCON- FORMITIES
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1304	SPARCserver 490 (SUN- 4/490) w/FPU2 (TI 8847) SUNOS (SS1-07) Version 4 Release 1	3/1/93	Full		
	Sun Fortran (FOR-1.4-4-5) Version 1 Release 4 NIST-91/1305	SPARCstation IPC (SUN- 4/40) w/FPU (WEITEK 3172) SUNOS (SS2-07) Version 4 Release 1	3/1/93	Full	SPARCstation SLC (S 4/20); SPARCstation (SUN-4/65) w/FPU (V 3172) SUNOS (SS2-07) Version Release 1	1+ VEITEK
Tandem Computers, Inc.	Fortran Version D10 N1ST-92/1461	NonStop CLX Guardian 90 Version D00	5/1/93	Full	NonStop Cyclone, Cyclone/R; VLX, CLX Guardian 90 Version D00	
Unisys Corporation	A Series Fortran77 Mark 4.0 NIST-91/2212	Unisys A10 MCP/AS Mark 4.0	10/1/92	Full	Unisys A Series, Micro A2, A3, A4, A5, A6, A9 A12, A15, A16, A17, A MCP/AS, Mark 4.0), A10,

2.9 Ada PROCESSORS

The following are Ada compilers that have been validated by the Ada Joint Program Office (AJPO). Compilers are listed in order of vendor. The list is updated monthly, and presently includes 259 base compilers and 198 compilers derived from base implementations. For the most current information on validated Ada compilers, please contact the Ada Information Clearinghouse at (703) 685-1477.

For background information, please see "An Introduction to the Validation Process".

(Key: * = Validated through Registration, base system above)

#YYMMDDFX.XXNNN = Certificate Number:

YYMMDD = date on-site testing was completed;

F = Ada Validation Facility;

X.XX = ACVC Version;

NNN = sequence number assigned by AVO

The extension of ACVC 1.11 certificates is to "at least" 1 March 1993. The current Ada 9X Transition plan calls for ACVC 1.11 to expire 1 June 1992, with certificates expiring 12 months later (1 June 1993).

On April 14, 1992, the AJPO announced it was "freezing" the Ada Compiler Validation Capability (ACVC) on version 1.11. Current ACVC 1.11 certificates will expire two years after Ada 9X has been adopted by ANSI. The ACVC version 1.11 will expire one year before certificates (i.e., 12 months after ANSI Ada 9X adoption) as has been the practice. This extended life for ACVC 1.11 means that there will be an overlap period between ACVC 1.11 (for ANSI/MIL-STD-1815A validations) and ACVC 2.0 (for ANSI/MIL-STD-1815B validations).

VENDOR, COMPILER &	HOST	TARGET
CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)
AETECH, Inc.	Northgate 386/25 (under	Northgate 386/25 (under MS
ntegrAda 386	Phar Lap/DOS 3.3)	DOS 3.3)
5.1.0	••	·
#901120W1.11087)		
Validated by Registration		
AETECH, Inc.	Any Computer System	Any Computer System
ntegrAda 386	Comprising: cpu: Intel	Comprising: cpu: Intel
5.1.0	80386, fpu: optional,	80386, fpu: optional,
BASE	memory: 4 MByte RAM, disk:	memory: 4 MByte RAM, disk:
#901120W1.11087)	40 MByte hard drive (under	40 MByte hard drive (under
,	Phar Lap/DOS 3.3)	MS DOS 3.3)
AETECH, Inc.	Unisys PW/2 386 (under SCO	Same as Host
ntegrAda 5.1.0	Unix 3.2)	
POSIX	- ,	
#901129W1.11086)		
Validated by Registration		
ETECH, Inc.	Any Computer System	Same as Host
tegrAda Posix	Comprising: cpu: Intel	
.1.0	80386, fpu: optional,	
BASE	memory: 4 MByte RAM, disk:	
901129W1.11086)	60 MByte hard drive (under	
,	SCO Unix 3.2)	
Validated by Registration		
ETECH, Inc.	Any Computer System	Same as Host
ETECH POSIX	Comprising: cpu: Intel	
ompiler, Version	80386 & 80486, fpu:	
1.0	optional, memory: 4 MByte	
BASE	RAM, disk: 60 MByte hard	
901129W1.11086)	drive (under Interactive	
	Unix System V, Release 3.2)	
itech Defense	VAXstation 3100 Cluster	Tadpole TP880V (88100-based
ystems, Inc.	(under VMS 5.3)	VME board) (bare machine)
I-ADA/88K Version 2.4	•	
#900930W1.11030)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
Aitech Defense	All DEC MicroVAX,	Tadpole TP880V (88100-based
Systems, Inc.	VAXstation, VAXserver,	VME board) & Motorola
AI-ADA/88K,	VAX-11, VAX 8xxx & VAX 6xxx	MVME181 (88100-based VME
Version 2.4	series (under VMS versions	board) (bare machines)
(BASE	5.0, 5.1, 5.2 & 5.3, as	Dourdy (Daile Machines)
#900930W1.11030)	supported)	
,, 000000111111000)	oapportoa,	
Aitech Defense	VAXstation 3100 Cluster	DSP96002 ADS board (bare
Systems, Inc.	(under VMS 5.3)	machine)
AI-ADA/96K,		
Version 3.0		
(#911012W1.11224)		
(#311012W1.11224)		
Aitech Defense	Sun-4/330 (under SunOS	DSP96002 ADS board (bare
Systems, Inc.	4.1.1)	machine)
AI-ADA/96K,	,	,
Version 3.0		
(#911012W1.11225)		
(#311012**1.11223)		
Alenia Aeritalia	MicroVAX 4000/200 (under	Alenia MARA (80286-based)
& Selenia S.p.A	VMS Version 5.4)	(under Alenia Operating
DACS VAX/VMS to	· · · · · · · · · · · · · · · · · · ·	System, Version 8.6 System)
BOX86 PM MARA Ada		System, version 6.0 System)
Cross Compiler,		
Version 4.6		
(#920509S1.11259)		
Alliant Computer	Alliant FX/2800 (under	Same as Host
		Carrie as 1 lost
Systems	Concentrix Release 2.0)	
Corporation		
Alliant		
FX/Ada-2800		
Compiler, Version		
1.0		
(#901218W1.11105)		
Alliant Computer	Alliant FX/80 (under	Same as Host
Systems	Concentrix Release 5.7)	
Corporation		
Alliant FX/Ada		
Compiler, Version 2.3		
(#901218W1.11106)		
Alsys	VAX 8530 (under VMS,	Same as Host
AlsyCOMP 053,	Version 5.1)	
Version 1.82	ŕ	
(#90050911.11009)		
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Alsys	IBM 9370 Model 90 (under	Same as Host
AlsyCOMP 042,	AlX/370 Version 1.2)	
Version 5.3	TWY OF O POISION 1.27	
(#900627N1.11013)		
(# 00002/141111010)		
Alsys	Sun-3/60 (under SunOS,	Same as Host
AlsyCOMP 026,	Version 4.0.3)	
Version 1.82	13.3.3.1 1.3.3,	
(#900814l1.11040)		
(# 0000 (TILLE (040)		
Alsys	MIPS M/120-5 (under	Same as Host
AlsyCOMP 025,	RISC/os, Version 4.0)	
Version 1.83		
(#900814l1.11041)		

Alsys Sony AlsyCOMP_046, NEW Version 5.3 (#901022A1.11043) *Validated by Registration Alsys Sony AlsyCOMP_046, 15xx (und (BASE #901022A1.11043) Alsys Apol AlsyCOMP_004, Dom Version 5.3 (#901022A1.11044) *Validated by Registration Alsys Apol AlsyCOMP_004, Dom Version 5.3 (#901022A1.11044)	MACHINE & (OS) / NEWS NWS-1850 (under /S-OS 3.3) / NEWS series 1250, 1, 17xx, 18xx & 19xx er NEWS-OS versions 3.3 4) lo DN4000 (under lain/OS SR10.2) lo DN3000, DN3500, 000 & DN4500 (under lain/OS SR10.2 & SR10.3)	MACHINE & (OS) Same as Host Any Host Any Host
SyCOMP_046, NEW Sys Sony Sys Sony Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sys Sy	/S-OS 3.3) / NEWS series 1250, ., 17xx, 18xx & 19xx er NEWS-OS versions 3.3 4) Io DN4000 (under lain/OS SR10.2) Io DN3000, DN3500, 000 & DN4500 (under	Any Host Same as Host
SyCOMP_046, NEW Sersion 5.3 #901022A1.11043 Validated by Registration Sys	/S-OS 3.3) / NEWS series 1250, ., 17xx, 18xx & 19xx er NEWS-OS versions 3.3 4) Io DN4000 (under lain/OS SR10.2) Io DN3000, DN3500, 000 & DN4500 (under	Any Host Same as Host
ersion 5.3 #901022A1.11043) Validated by Registration Isys Sony IsyCOMP_046, 15xx ersion 5.3 (und 3ASE & 3.4 901022A1.11043) Isys Apol IsyCOMP_004, Dom ersion 5.3 #901022A1.11044) Validated by Registration Isys Apol IsyS Apol IsyCOMP_004, Dom IsyS Apol	/ NEWS series 1250, 1, 17xx, 18xx & 19xx er NEWS-OS versions 3.3 4) lo DN4000 (under tain/OS SR10.2)	Same as Host
#901022A1.11043) Validated by Registration Isys Sony IsyCOMP_046, 15xx ersion 5.3 (und 3ASE & 3.4 901022A1.11043) Isys Apol IsyCOMP_004, Dom ersion 5.3 #901022A1.11044) Validated by Registration Isys Apol IsyS Apol IsyCOMP_004, Dom Isys Apol	In DN3000, DN3500, 000 & DN4500 (under	Same as Host
Sony Sony Sony Sony SycOMP_046, 15xx SycOMP_046, 15xx SycOMP_046, 15xx SycOMP_04, SycOMP_004, SycOMP_004, SycOMP_04, S	In DN3000, DN3500, 000 & DN4500 (under	Same as Host
IsyCOMP_046,	In DN3000, DN3500, 000 & DN4500 (under	Same as Host
/ersion 5.3 (und BASE & 3.4	er NEWS-OS versions 3.3 4) lo DN4000 (under ain/OS SR10.2) lo DN3000, DN3500, 000 & DN4500 (under	
#901022A1.11043) Apol Usys Apol UsyCOMP_004, Dom Version 5.3 #901022A1.11044) Validated by Registration Usys Apol UsyCOMP_004, DN44 Version 5.3 BASE	4) lo DN4000 (under lain/OS SR10.2) lo DN3000, DN3500, 000 & DN4500 (under	
#901022A1.11043) Usys Apol UsyCOMP_004, Dom /ersion 5.3 #901022A1.11044) Validated by Registration Usys Apol UsyCOMP_004, DN44 /ersion 5.3 Dom BASE	lo DN4000 (under lain/OS SR10.2) lo DN3000, DN3500, 000 & DN4500 (under	
Apol Nsys Apol NsyCOMP_004, Dom NsyS Apol NsyS Apol NsyS Apol NsyS Apol NsyCOMP_004, DN44 NsyS Apol NsyCOMP_004, DN45 NsyS Apol NsyS Apo	lain/OS SR10.2) lo DN3000, DN3500, 000 & DN4500 (under	
Validated by Registration ValsyCOMP_004, Validated by Registration ValsyS ValsyCOMP_004, Version 5.3 Dom DAM Dom DAM DAM DOM DAM DA	lain/OS SR10.2) lo DN3000, DN3500, 000 & DN4500 (under	
/ersion 5.3 #901022A1.11044) *Validated by Registration Nsys Apol NsyCOMP_004, DN44 /ersion 5.3 Dom BASE	lo DN3000, DN3500, 000 & DN4500 (under	Any Host
#901022A1.11044) Validated by Registration Usys Apol UsyCOMP_004, DN44 Version 5.3 Dom BASE	000 & DN4500 (under	Any Host
Validated by Registration Usys Apol UsyCOMP_004, DN4 Version 5.3 Dom BASE	000 & DN4500 (under	Any Host
Asys Apol UsyCOMP_004, DN4 Version 5.3 Dom BASE Dom	000 & DN4500 (under	Any Host
DN4 DN4 DN4 DN4	000 & DN4500 (under	Any Host
/ersion 5.3 Dom BASE		
BASE	ain/OS SR10.2 & SR10.3)	
#901022A1.11044)		
	DPX/2 320 (under	Same as Host
	S. 02.00.05)	
/ersion 5.3		
#901022A1.11045)		
Validated by Registration		
	DPX 2/210, /220, /320,	Any Host
	& /360 (under BOS	
	0.05 & 2.00.10)	
BASE #901022A1.11045)		
	0000s350 (under HP-UX	Same as Host
AlsyCOMP_002, 6.5)		
/ersion 5.3		
#901022A1.11046)		
Validated by Registration	2000 Carlos COO all	Any Heat
•	0000 Series 300, all	Any Host
	els (under HP-UX 6.5 &	
/ersion 5.3 7.0)		
BASE #901022A1.11046)		
· ·	3/260 (under SunOS 3.2)	Same as Host
	3/200 (under SullO3 3.2)	Jame as Must
lsyCOMP_005, Version 5.3 #901022A1.11047)		
Validated by Registration		
	3/50 /60 /75 /90	Any Host
. •	3/50, /60, /75, /80, - /360, /390, /470 \$	Ally Float
	, /260, /280, /470 &	
	(under SunOS 3.2, 3.5,	
#901022A1.11047)	k 4.1)	
Alsys CETI	A Unigraph 6000 (under	Same as Host
	raph/X 3.1)	Quillo do Floor
Version 5.3	14p11/A 3.1)	
#901022A1.11048)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
M/olisloted by Decistoria		
*Validated by Registration	11.1	
Alsys	Unigraph 1000/325, 2000/50,	Any Host
AlsyCOMP_035,	2000/250, 2000/325,	
Version 5.3	3000/325-333, 6000/325-333,	
(BASE	7000/325, 8000/325 & 9000	
#901022A1.11048)	(under Unigraph/X 3.1 &	
	3.1.1)	
Alsys	Compaq Deskpro 386 (under	Same as Host
AlsyCOMP 016	MS-DOS 3.30, Phar Lap 2.0)	
Version 5.1		
#901102W1.11055)		
Alexan	0. 4.11.000 (1.140.000	Outro Mark
Alsys	CompuAdd 320 (under MS-DOS	Same as Host
AlsyCOMP_016	3.30, Phar Lap 2.0)	
Version 5.1		
(#901102W1.11056)		
Validated by Registration		
Alsys	HP Vectra RS/20, RS/20C,	Any Host
AsyCOMP 016,	RS/25 & RS/25C; AST Premium	
Version 5.1	386; and Unisys 386 &	
(BASE #901102W1.11056)	Desktop III (under MS-DOS 3.30, Phar Lap 2.0)	
,	0.00, 1 nui Lap 2.0)	
Validated by Registration		
Alsys	Any Computer System	Same as Host
AlsyCOMP 016	Comprising: cpu: Intel	
Version 5.1	80386; fpu: optional;	
BASE	memory: 5 MByte RAM; disk:	
#901102W1.11056)	10 MByte (under MS-DOS	
, 66 . 162	3.30, Phar Lap 2.0)	
Aloro	ALD Downs Vision 486 (under	Same as Host
Alsys	ALR Power Veisa 486 (under	Same as most
AlsyCOMP_016	MS-DOS 3.30, Phar Lap 2.0)	
Version 5.1		
(#901102W1.11057)		
Alsys	HP Vectra RS/25C (under	Same as Host
AlsyCOMP_003	MS-DOS 3.30)	
Version 5.1	,	
(#901102W1.11058)		
Validated by Registration		
	Unione Dealdon III funda-	Same as Host
Alsys	Unisys Desktop III (under	Same as must
AlsyCOMP_003,	MS-DOS 3.30)	
Version 5.1		
(BASE #901103\M1 11058)		
#901102W1.11058)		
Alsys	Zenith Z-248 Model 50	Same as Host
AlsyCOMP_003	(under MS-DOS 3.30)	
Version 5.1		
(#901102W1.11059)		
Validated by Registration		
	ICS SROBESC/10 (under	Same as Host
Alsys	ICS SB286SC/12 (under	Jame as 1 lost
AlsyCOMP_003,	MS-DOS 3.30)	
Version 5.1		
(BASE		
#901102W1.11059)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
, ,	HP Voctro EC/12: and IPM	Any Hoot
Alsys	HP Vectra ES/12; and IBM	Any Host
AlsyCOMP_003,	PC/AT (all models) (under	
Version 5.1 (BASE	MS-DOS 3.30)	
#901102W1.11059)		
Alsys	INMOS T800 transputer on a	INMOS T800 transputer on a
Alsycomp 037,	B405 TRAM (bare) with an	B405 TRAM (bare) using an
Version 5.2	INMOS B008 Communications	IBM PC/AT under MS-DOS 3.1
(#901114N1.11065)	link implemented in an IBM	running INMOS Iserver 1.3
(#301114111111000)	•	for file-server support via
	PC/AT (under MS-DOS 3.1 and INMOS Iserver V1.3)	an INMOS B008 board link
*Validated by Registration		
Alsys	INMOS T800 transputer on a	INMOS T800 transputer on a
AlsyCOMP 037,	B403 TRAM (bare) with an	B405 TRAM (bare) using an
V5.3	INMOS B008 Communications	IBM PC/AT under MS-DOS 3.1
		•
(BASE	link implemented in an IBM	running INMOS Iserver 1.3
#901114N1.11065)	PC/AT (under MS-DOS 3.1 and	for file-server support via
	INMOS Iserver V1.3)	an INMOS B008 board link; INMOS T425
	ŕ	transputer on a B403 TRAM (bare) using an
		IBM PC/AT under MS-DOS 3.1 running INMO
		Iserver 1.3 for file-server support via
		an INMOS B008 board link
*Validated by Registration		
Alsys	INMOS T800 transputer on a	INMOS T800 transputer on a
Alsycomp 037	B405 TRAM board (bare),	B405 TRAM (bare), using an
Version 5.4.2	with an INMOS B008	IBM PC/AT under MS-DOS 3.1
(BASE	Communications link	running INMOS Iserver V1.42h for
•		
#901114N1.11065)	implemented in an IBM PC/AT	file-server support via an INMOS
	(under MS-DOS 3.1 and INMOS	B008 board link and INMOS T425
	Iserver V1.42h)	transputer on a B403 TRAM (bare), using an
		IBM PC/AT under MS-DOS 3.1 running INMO
		Iserver V1.42h for file-server support via an
		INMOS B008 board link
Alsys	HP 9000s350 (under HP-UX	Motorola MVME101 (68000)
AlsyCOMP 012,	6.5)	(bare machine, using ARTK
, · , _ _ _	0.5)	· ·
version 5.3 (#901116A1.11066)		Version 5.3)
*Validated by Registration	HP 0000 Cories 200 Madels	Motorolo M/ME404 (69000)
Alsys	HP 9000 Series 300, Models	Motorola MVME101 (68000),
AlsyCOMP_012,	340, 345, 360, 370 & 375	MVME121 (68010), MVME135-1
Version 5.3	(under HP-UX 6.5 & 7.0)	(68020/68881) & MVME147-1
(BASE	•	(68030/68882) (bare
#901116A1.11066)		machines, using ARTK 5.3)
Validated by Registration		
Alsys	HP 0000 Series 200 (ell	Motorola M68332EVS
-	HP 9000 Series 300 (all	
AlsyCOMP_012,	models) (under HP-UX 6.5 &	Evaluation System Customers
Version 5.3	7.0)	(CPU32) (bare machine, using
(BASE		ARTK 5.3)
#901116A1.11066)		·
Alsys	Apollo DN4000 (under	Motorola MVME147-1
•	•	
AlsyCOMP_036,	Domain/OS SR10.2)	(68030/68882) (bare machine,
Apreion E 3		using ARTK Version 5.3)
Version 5.3 (#901116A1.11067)		doing / a title voicion die/

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
	MACIIII & (00)	MACHINE & (00)
*Validated by Registration		
Alsys	Apollo DN 3000, 3500, 4000	Motorola MVME101 (68000),
AlsyCOMP 036,	& 4500 (under Domain/OS	MVME121 (68010), MVME135-1
Version 5.3	SR10.2 & SR10.3)	(68020/68881) & MVME147-1
(BASE	5. 11.5.2 & 5. 11.5.5)	(68030/68882) (bare
#901116A1.11067)		machines, using ARTK 5.3)
Alsys	Sun 3/260 (under SunOS 3.2)	Motorola MVME121 (68010)
AlsyCOMP 015,		(bare machine, using ARTK
Version 5.3		Version 5.3)
(#901116A1.11068)		voidon 5.5)
*Validated by Registration		
Alsys	Sun 3/50, /60, /75, /80,	Motorola MVME101 (68000),
AlsyCOMP 015,		, ,
	/160, /260, /280, /470 &	MVME121 (68010), MVME135-1
Version 5.3	/480 (under SunOS 3.2, 3.5,	(68020/68881) & MVME147-1
(BASE	4.0 & 4.1)	(68030/68882) (bare
#901116A1.11068)		machines, using ARTK 5.3)
Alsys	MicroVAX II (under VMS	INMOS T425 transputer on a
Alsycomp 017,	V5.3)	B403 TRAM (bare) using the
Version 5.2	•	Host running INMOS Iserver
(#901118N1.11064)		1.3 for file-server support
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		via a CAPLIN QT0 board link
*Validated by Registration		
Alsys	MicroVAX II (under VMS	INMOS T425 transputer on a B403
AlsyCOMP 017,	V5.3)	TRAM (bare) using the Host running
V5.3	¥3.3)	INMOS Iserver 1.3 for file-server support
(BASE		via a CAPLIN QT0 board link; INMOS T800
•		· · · · · · · · · · · · · · · · · · ·
#901118N1.11064)		transputer on a B405 TRAM (bare) using the
		Host running INMOS Iserver 1.3 for file-server support via a CAPLIN QT0 board link
		••
*Validated by Registration		DAMA TARE A STANDARD TO
Alsys	MicroVAX II (under VMS	INMOS T425 transputer on a B403 TRAM
Alsycomp_017	V5.3)	(bare), using the Host running INMOS
Version 5.4.3		Iserver V1.42i for file-server support via
(BASE		a CAPLIN QT0 board link and INMOS T800
#901118N1.11064)		transputer on a B405 TRAM (bare), using the
·		Host running INMOS Iserver V1.42i for
		file-server support via a CAPLIN QT0 board lin
Alsys	MicroVAX 3100 (under VMS	Same as Host
AlsyCOMP_018	5.3)	
Version 5.2	3.5)	
(#901120A1.11070)		
*Validated by Registration		
Alsys	DEC VAX-11, VAXserver,	Any Host
•	•	Ally 1 lost
AlsyCOMP_018,	VAXstation, MicroVAX, VAX	
Version 5.2	4000, VAX 6000, VAX 8000 &	
(BASE	VAX 9000 Series of	
#901120A1.11070)	computers (as supported) (under VMS 5.2 & 5.4)	
Alono		Same as Host
Also COMP COS Marriag 5.0	IBM 9370 Model 90 (under	Same as Host
AlsyCOMP_006, Version 5.3 (#901125N1.11071)	VM/IS CMS release 5.1)	
Alsys	IRM 370 30940 (under MA/S /VA	Same as Host
AlsyCOMP 023, Version 5.3	IBM 370 3084Q (under MVS/XA release 3.2)	Carrie as Frost
	I DI Dase J.Zj	
(#901125N1.11072)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Alexander	VAV 2010 (- 1- 1010 - 2)	Maria 1 10 0 15 105 1
Alsys	VAX 6210 (under VMS 5.2)	Motorola MVME135-1
AlsyCOMP_011,		(68020/68881) (bare machine,
Version 5.3		using ARTK Version 5.3)
#901127A1.11069)		
Validated by Registration		
Nsys .	DEC VAX-11, VAXserver,	Motorola MVME101 (68000),
AlsyCOMP 011,	VAXstation, MicroVAX, VAX	MVME121 (68010), MVME135-1
/ersion 5.3	4000, VAX 6000, VAX 8000 &	(68020/68881) & MVME147-1
BASE	VAX 9000 Series of	(68030/68882) (bare
#901127A1.11069)	computers (as supported)	machines, using ARTK 5.3)
730112771111663)	(under VMS 5.2, 5.3 & 5.4)	madimos, asing partitions
Usys	Multitech 1100 (under SCO	Same as Host
AlsyCOMP 034,	Unix 3.2)	Gaine as i rest
	UHIX 3.2)	
/ersion 5.1		
#901221W1.11103)		
Validated by Registration		
A lsys	Everex AGI 3000D, Compaq	Each Host, self-targetted
AlsyCOMP_034,	Deskpro 386 & SAI	
Version 5.1	Technologies Army	
(BASE	Lightweight Computer Unit	
#901221W1.11103)	(LCU V2) (under Interactive	
	Unix 3.2)	
Validated by Registration		
Validated by negistration	Prime MBX (under Prime Unix	Same as Host
	·	Same as Must
NsyCOMP_034, Version 5.1 BASE	V.4)	
#901221W1.11103)		
Validated by Registration		
Alsys	Any Computer System	Each Host, self-targetted
AlsyCOMP_034,	comprising: cpu: Intel	
/ersion 5.1	80386 or 80486; fpu:	
BASE	optional (under a Unix	
¥901221W1.11103)	3.2-based OS)	
Alsys	Apple Macintosh Ilcx (under	Same as Host
AlsyCOMP 043,	Macintosh System Software	
<u> </u>	6 O E\	
ersion 5.3	6.0.5)	
Persion 5.3	6.0.5)	
/ersion 5.3 #901221W1.11104)	6.0.5) IBM PS/2 Model 80 (under	Same as Host
/ersion 5.3 #901221W1.11104) Wsys		Same as Host
/ersion 5.3 #901221W1.11104) Jsys JsyCOMP_034	IBM PS/2 Model 80 (under LynxOS Version 2.0 +	Same as Host
/ersion 5.3 #901221W1.11104) Nsys NsyCOMP_034 /ersion 5.1	IBM PS/2 Model 80 (under	Same as Host
/ersion 5.3 #901221W1.11104) Nsys NsyCOMP_034 /ersion 5.1 #910129W1.11113)	IBM PS/2 Model 80 (under LynxOS Version 2.0 +	Same as Host
Version 5.3 #901221W1.11104) Wsys WsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11)	
Version 5.3 #901221W1.11104) Wsys WsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Wsys	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11)	Same as Host Any Host
Version 5.3 #901221W1.11104) Isys IsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Isys IsyCOMP_034,	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS	
Version 5.3 #901221W1.11104) Usys UsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Usys UsyCOMP_034, Version 5.1	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11)	
Version 5.3 #901221W1.11104) Usys UsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Usys UsyCOMP_034, Version 5.1 BASE	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS	
/ersion 5.3 #901221W1.11104) Alsys AlsyCOMP_034 /ersion 5.1 #910129W1.11113) Validated by Registration Alsys AlsyCOMP_034, /ersion 5.1 BASE	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS	
Version 5.3 #901221W1.11104) Alsys AlsyCOMP_034 Version 5.1 #910129W1.11113) *Validated by Registration Alsys AlsyCOMP_034, Version 5.1 (BASE #910129W1.11113)	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS	
Version 5.3 (#901221W1.11104) Alsys AlsyCOMP_034 Version 5.1 (#910129W1.11113) Validated by Registration Alsys AlsyCOMP_034, Version 5.1 (BASE #910129W1.11113)	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS Version 2.0 Release 15) Sun 3/60 (under SunOS,	Any Host KWS EB68020 (under
Version 5.3 #901221W1.11104) Usys UsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Usys UsyCOMP_034, Version 5.1 BASE #910129W1.11113) Usys UsyCOMP_056, Version 1.82	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS Version 2.0 Release 15)	Any Host
Version 5.3 #901221W1.11104) Usys UsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Usys UsyCOMP_034, Version 5.1 BASE #910129W1.11113) Usys UsyCOMP_056, Version 1.82 #910131I1.11127)	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS Version 2.0 Release 15) Sun 3/60 (under SunOS, Version 4.0.3)	Any Host KWS EB68020 (under OS-9/68020, Version 2.3)
Version 5.3 #901221W1.11104) Usys UsyCOMP_034 Version 5.1 #910129W1.11113) Validated by Registration Usys UsyCOMP_034, Version 5.1 BASE #910129W1.11113)	IBM PS/2 Model 80 (under LynxOS Version 2.0 + Threads Release 11) IBM PS/2 Models 70-xxx & 80-xxx (under LynxOS Version 2.0 Release 15) Sun 3/60 (under SunOS,	Any Host KWS EB68020 (under

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Alono	Computed 205 (under DOS	Intel (CDC 296/116 /hore
Alsys	CompuAdd 325 (under DOS	Intel iSBC 386/116 (bare
AlsyCOMP_029, Version 5.3	3.31)	machine, using ARTK 5.3)
version 5.3 (#910323W1.11131)		
#910323 VV 1.11131)		
Nsys	MicroVAX II (under VMS 5.2)	Intel iSBC 386/31 (bare
NsyCOMP_030,		machine, using ARTK 5.3)
/ersion 5.3		
(#910323W1.11132)		
Nsys	Sun 3/140 (under SunOS 4.1)	Intel iSBC 386/12 (bare
NsyCOMP 033,	, ,	machine, using ARTK 5.3)
/ersion 5.3		, ,
#910323W1.11133)		
Alsys	VAY 9520 (under VAIC Version	Integrated Davise Technology
	VAX 8530 (under VMS Version	Integrated Device Technology
NsyCOMP_049,	5.3-1)	IDT7RS301 System
/ersion 1.83		(R3000/R3010) (bare machine)
(#910407l1.11144)		
Validated by Registration		
Nsys	VAX 8530 (under VMS 5.3-1)	Lockheed Sanders STAR MVP
NsyCOMP_049,		(R3000/R3010) (bare machine)
/ersion 1.83-01		
BASE		
#910407I1.11144)		
dsys	DECstation 3100 (under	Same as Host
NsyCOMP_057,	ULTRIX Version 4.0)	
/ersion 1.83		
#910625l1.11193)		
More	IDM DISC System 6000 model	Same as Host
Nsys NsyCOMP 024,	IBM RISC System 6000, model 520 (under AIX v3.1)	Same as nost
/ersion 5.3	520 (ulider ALX VS. I)	
#910809W1.11195)		
Visys	Unisys B39 (under BTOS II,	Same as Host
NsyCOMP_058,	v3.2.0)	
/ersion 5.3		
#910809W1.11196)		
dsys	HP Vectra RS/25C (under DOS	Unisys B39 (under BTOS II,
NsyCOMP 040, Version 5.3	3.30)	v3.2.0)
#910809W1.11197)		
Neve	Sun SPARCstation 2 (under	Same as Host
Nsys	•	Same as most
NsyCOMP_047 Version 5.37 #911119A1.11231)	SunOS 4.1.1)	
Validated by Registration	Sun SPARCHASIAN ELC. IBC 9	Any Host
NewCOMP 047	Sun SPARCstation ELC, IPC &	Ally HUSI
NsyCOMP_047, /ersion 5.37	IPX; SPARCserver 330, 370,	
BASE	390, 470, 490, 630MP, 670MP	
#911119A1.11231)	& 690MP (under SunOS 4.1.1)	
· ·		
Validated by Registration	Cally average Costs = 7 /700	April Heat
Nsys	Solbourne Series 5/500,	Any Host
NsyCOMP_047,	/530, /600, /670, /800 &	
Version 5.37	5E/900; and \$4000 (under	
(BASE	OS/MP 4.1)	
#911119A1.11231)		

VENDOR, COMPILER & CERTIFICATE #	HOST	TARGET MACHINE & (OS)
CERTIFICATE #	MACHINE & (OS)	MACHINE & (US)
Alsys	DECstation 3100 (under	Lockheed Sanders STAR MVP
AlsyCOMP 061,	ULTRIX Version 4.2)	board (R3000/3010) (bare
Version 1.83	,	machine)
#92042911.11251)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
lsys / German	Sun-3/60 (under SunOS	Sun-3/60 (under SunOS
MoD	Version 4.0.3, with CAIS	Version 4.0.3)
NATO SWG on APSE	Version 5.5D)	,
Compiler for Sun3/SunOS,	•	
Version S3C1.82-02		
(#911016i1.11233)		
Alsys / German	VAX 8350 (under VMS Version	VAX 8350 (under VMS Version
MoD	5.4-1, with CAIS Version	5.4-1)
NATO SWG on APSE	5.5E)	3.7.1 ,
Compiler for VAX/VMS, Version	,	
VC1.82-02		
(#911118I1.11236)		
Nsys / German	VAV 9250 (under VASC Version	Motorolo MARIE 122VT (MCCCCCC)
NoD	VAX 8350 (under VMS Version 5.4-1, with CAIS Version	Motorola MVME133XT (MC68020)
NATO SWG on APSE	•	(bare machine)
Compiler for VAX/VMS to	5.5E)	
MC68020, Version VCM1.82-02		
#920306 1.11248)		
TLAS ELEKTRONIK	VAX 6000-410 (under VMS	ATLAS ELEKTRONIK GmbH MPR
GmbH	Version 5.2)	2300 (under MOS 2300,
ATLAS ELEKTRONIK		Version 2.1)
Ada Compiler VVME 1.82		
#910324l1.11136)		
Concurrent	Concurrent Computer	Same as Host
Computer	Corporation 8400 (MIPS	
Corporation	R3000/3010) (under RTU	
3Ada, Version	Version 5.1)	
).5		
#90042711.11008)		
Validated by Registration		
Concurrent	Concurrent Computer	Same as Host
Computer	Corporation 8500 (MIPS	
Corporation	R3000/R3010) (under RTU	
SAda, Version 0.5	Version 5.1)	
BASE		
90042711.11008)		
Oncurrent	Concurrent Computer	Same as Host
Computer	Corporation 6650 with Super	Odillo as slost
Corporation		
Corporation Corporation 1.1v	Lightning Floating Point	
	(under RTU Version 5.0C)	
#901130W1.11107)		
Validated by Registration		
Concurrent	Concurrent Computer	Any Host
Computer	Corporation Series 6000	
Corporation	with Super Lightning	
3 Ada, Version	Floating Point, and Series	
.1v	5000 with Lightning	
BASE	Floating Point (all models)	
901130W1.11107)	(under RTU Version 5.0A,	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE 8: (OS)	TARGET MACHINE & (OS)
CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)
Validated by Registration		
Concurrent	Concurrent Computer	Same as Host
Computer	Corporation Series 6000	
Corporation	(MC68030, with Super	
•		
C3 Ada, Version	Lightning Floating Point) &	
1.1	Series 5000 (MC68020, with	
BASE	Lightning Floating Point)	
#901130W1.11107)	(under RTU Versions 5.0A,	
	5.0B, 5.0C & 6.0)	
Concurrent	Concurrent Computer	Same as Host
Computer	Corporation 3280MPS (under	
Corporation	OS/32 Version R08-03.2)	
3 Ada Version R03-00V	00/02 Version 1100-00.2)	
#901130W1.11108)		
Validated by Registration		
Concurrent	Concurrent Computer	Any Host
Computer	Corporation Series 3200:	
Corporation	3200 MPS, 3203, 3205, 3210,	
23 Ada, Version	3220, 3230, 3250, 3230XP,	
303-00V	3250XP, 3230MPS, 3260MPS,	
BASE	Micro4, and Micro5 (under	
¥901130W1.11108)	OS/32 Versions R08-03,	
	R08-03.1 & R08-03.2)	
Concurrent	Concurrent Computer	Same as Host
Computer	Corporation 8400 (MIPS	
Corporation	R3000/3010) (under RTU	
23 Ada Version 1.0v	Version 5.1)	
#901130W1.11109)	Version 5.1)	
Maladad by Danier of		
Validated by Registration		
Concurrent	Concurrent Computer	Any Host
Computer	Corporation Series 8000	
Corporation	(all models) (under RTU	
C3 Ada, Version 1.0v	Versions 5.1, 5.1A & 5.1B)	
BASE	*01310113 3.11, 3.11A & 3.11B)	
#901130W1.11109)		
Validated by Registration Concurrent	Concurrent Computer	Same as Host
Computer	Corporation Series 8000	
•		
Corporation	(MIPS R3000/3010) (under	
3 Ada, Version 1.0	RTU Versions 5.1A, 5.1B & 6.0)	
BASE *001130\M1 11100\		
#901130W1.11109)		
Validated by Registration		
Concurrent	Concurrent Computer	Same as Host
Computer	Corporation Series 8000	
Corporation	(R3000/3010), all models	
23 Ada, Version 2.0p	(under RTU Versions 5.1A,	
BASE	5.1B & 6.0)	
#901130W1.11109)	3.10 & 0.0j	
Concurrent	Concurrent Computer	Same as Host
	Concurrent Computer	Same as most
Computer	Corporation 6650 with	
Corporation	MC68882 Floating Point	
C3 Ada Version 1.1v	(under RTU Version 5.0C)	
#901130W1.11110)	•	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
OBRINIONIU T	madimi d (OD)	THE CHILLE & (OU)
*Validated by Registration		
Concurrent	Concurrent Computer	Any Host
Computer	Corporation Series 6000	,
Corporation	with an MC68882 fpu, and	
C3 Ada, Version 1.1v	Series 5000 with an MC68881	
BASE	fpu (all models) (under RTU	
#901130W1.11110)	Versions 5.0A, 5.0B & 5.0C)	
N/alidated by Registration		
Validated by Registration Concurrent	Conquerent Computer	Same as Host
Computer	Concurrent Computer	Same as nost
•	Corporation Series 6000	
Corporation	(MC68030/MC68882) & Series	
C3 Ada, Version 1.1	5000 (MC68020/MC68881)	
BASE	(under RTU Versions 5.0A,	
¥901130W1.11110)	5.0B, 5.0C & 6.0)	
Validated by Registration		
Concurrent	Concurrent Computer	Any Host
Computer	Corporation Series 7000	
Corporation	(MC68040) (under RTU	
C3 Ada, Version 1.2	Version 6.1)	
(BASE #901130W1.11110)		
CONVEX Computer	CONVEX C220 (under ConvexOS	Same as Host
Corporation	8.1)	
CONVEX Ada, Version 2.0 (#900910W1.11027)		
Validated by Registration		
CONVEX Computer	CONVEX C120, C201, C202,	Any Host
Corporation	C210, C220, C230, C240,	
CONVEX Ada,	C210i, C220i & C230i (under	
Version 2.0	ConvexOS, Versions 8.1 and	
(BASE	9.0)	
#900910W1.11027)	,	
Validated by Registration		
CONVEX Computer	CONVEX C120, C201, C202,	Each Host, self-targetted
Corporation	C210, C210i, C220, C220i,	Laon riost, son-targetted
CONVEX Ada.		
•	C230, C230i, C240, C3210,	
Version 2.0	C3220, C3230, C3240, C3410,	
(BASE	C3420, C3430, C3440, C3450,	
#900910W1.11027)	C3460, C3470, C3480, C3810,	
	C3820, C3830, C3840, C3850,	
	C3860, C3870, C3880 (under	
	ConvexOS versions 8.1, 9.0,	
	9.1 & 10.0)	
Validated by Registration		
CONVEX Computer	CONVEX C120, and C2xx,	Same as Host
Corporation	C32xx, C34xx, & C38xx	
CONVEX Ada,	computer series (under	
Version 2.1	ConvexOS, Versions 8.1,	
BASE		
	9.0, 9.1, 10.0, & 10.1; and	
#900910W1.11027)	ConvexOS/Secure Versions 9.5 & 10.0)	
	ŕ	
Cray Research,	Cray X-MP/EA (under UNICOS	Same as Host
nc.	Release 5.0)	
Cray Ada Compiler		
Release 2.0 (#901112W1.11116)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration	CDAV V NAD 9 V NAD /EA -III	Each Host, self-targeted
Cray Research,	CRAY X-MP & X-MP/EA, all	Each Host, sen-targeted
nc. Store Ado Compiler	models (under UNICOS	
Cray Ada Compiler Release 2.0	Releases 5.1, 6.0 & 6.1)	
Refease 2.0 BASE		
#901112W1.11116)		
	0 2/40/	0
Cray Research,	Cray Y-MP (under UNICOS	Same as Host
nc.	Release 5.0)	
Cray Ada Compiler		
Release 2.0		
#901112W1.11117)		
Validated by Registration		
Cray Research,	Cray Y-MP, all models	Each Host, self-targeted
nc.	(under UNICOS Releases 5.1,	
Cray Ada Compiler	6.0 & 6.1)	
Release 2.0		
BASE		
#901112W1.11117)		
Validated by Registration		
Cray Research,	CRAY Y-MP EL (under UNICOS	Same as Host
nc.	Releases 6.0 & 6.1)	
Cray Ada Compiler		
Release 2.0		
BASE		
#901112W1.11117)		
Cray Research,	CRAY-2/4-128 (under UNICOS	Same as Host
nc.	Release 6.1)	
Cray Ada Compiler		
Release 2.0		
#911006W1.11223)		
Walidated by Posistration		
Validated by Registration Cray Research, Inc.	CDAV 2 (all models) (under	Each Host, self-targeted
Cray Research, Inc. Cray Ada Compiler Release 2.0	CRAY-2 (all models) (under	Each most, sen-targeted
•	UNICOS Release 6.1)	
BASE #911006W1.11223)		
·		
DDC International A/S	VAX 8530 (under VMS Version	Intel iSBC 386/21 (bare
DACS VAX/VMS to 80386 PM Bare Ada	5.3)	machine)
Cross Compiler System, Version 4.6		
#901129S1.11074)		
DDC International A/S	ICL DRS300 (under DRS/NX,	Same as Host
DACS 80386 UNIX V Ada	Version 3.2 (UNIX System	
Compiler System, Version 4.6	V/386 release 3.2))	
#901129S1.11075)	, , , , , , , , , , , , , , , , , , , ,	
ODC International A/S	Sun 3/60 (under SunOS	Same as Host
DDC International A/S	Sun-3/60 (under SunOS,	Sallie as Fiust
DACS Sun3/SunOS Native Ada	Version 4.0_Export)	
Compiler System, Version 4.6 #901129S1.11076)		
DDC International A/S	VAX 8530 (under VMS Version	Intel iSBC 186/03 (bare
DACS VAX/VMS to 80186 Bare Ada	5.3)	machine)
Cross Compiler System with Rate		
Monotonic Scheduling, Version 4.6		
(#901129S1.11077)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
DDC International A/S	DEC VAX-11, VAXserver,	Intel iSBC 186/03 (bare
DACS VAX/VMS to 80186 Bare	VAXstation, MicroVAX, VAX	machine)
Ada Cross Compiler System with	6000, VAX 8000 & VAX 9000	
Rate Monotonic	Series of computers,	
Scheduling, Version 4.6	including Raytheon Military	
BASE	VAX computer model 860	
¥901129S1.11077)	(under VMS Version 5.3)	
Validated by Registration		
DDC International A/S	DEC VAX-11, VAXserver,	Intel iSBC 86/35 (bare
DACS VAX/VMS to 8086 Bare	VAXstation, MicroVAX, VAX	machine)
Ada Cross Compiler System with	6000, VAX 8000 & VAX 9000	•
Rate Monotonic	Series of computers,	
Scheduling, Version 4.6	including Raytheon Military	
BASE	VAX computer model 860	
¥901129S1.11077)	(under VMS Version 5.3)	
	,	
Validated by Registration	DEOMAY 44 MAY	I-A-1 1000 000 /40 /5
DDC International	DEC VAX-11, VAXserver,	Intel iSBC 286/12 (bare
\ /S	VAXstation, MicroVAX, VAX	machine)
DACS VAX/VMS to 80286 Bare	6000, VAX 8000 & VAX 9000	
Ada Cross Compiler System with	Series of computers,	
Rate Monotonic Scheduling, Version 4.6	including Raytheon Military	
BASE	VAX computer model 860	
¥901129S1.11077)	(under VMS Version 5.3)	
Validated by Registration		
DDC International A/S	DEC VAX-11, VAXserver,	Intel iSBC 286/12 in
DACS VAX/VMS to 80286 PM	VAXstation, MicroVAX, VAX	Protected Mode (bare
Bare Ada Cross Compiler System	6000, VAX 8000 & VAX 9000	machine)
with Rate Monotonic	Series of computers,	macrimey
Scheduling, Version 4.6	•	
O. C.	including Raytheon Military	
BASE ************************************	VAX computer model 860	
¥901129S1.11077)	(under VMS Version 5.3)	
DDC International A/S	VAX 8530 (under VMS Version	Intel iSBC 386/21 (bare
DACS VAX/VMS to 80386 Bare Ada	5.3)	machine)
Cross Compiler System with Rate		
Monotonic Scheduling, Version 4.6		
#901129S1.11078)		
DDC International A/S	VAX 8530 (under VMS Version	Intel iSBC 186/03 (bare
DACS VAX/VMS to 80186 Bare Ada	5.3)	machine)
Cross Compiler System, Version 4.6	,	•
#901129S1.11079)		
Validated by Registration		
DDC International A/S	DEC VAX-11, VAXserver,	Intel iSBC 186/03 (bare
DACS VAX/VMS to 80186 Bare Ada	•	
	VAXstation, MicroVAX, VAX	machine)
Cross Compiler System, Version 4.6	6000, VAX 8000 & VAX 9000 Series	
BASE	of computers, including Raytheon	
901129S1.11079)	Military VAX computer model 860 (under VMS Version 5.3)	
Validated by Registration		
DDC International A/S	DEC VAY-11 VAY-	Intel iSBC 86/35 (bare
•	DEC VAX-11, VAXserver,	
ACS VAX/VMS to	VAXstation, MicroVAX, VAX	machine)
086 Bare Ada	6000, VAX 8000 & VAX 9000	
Cross Compiler	Series of computers,	
system, Version 4.6	including Raytheon Military	
BASE	VAX computer model 860	
	(under VMS Version 5.3)	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
VALLE VIALE II		111111111111111111111111111111111111111
Validated by Registration		
DDC International A/S	DEC VAX-11, VAXserver,	Intel iSBC 286/12 (bare
DACS VAX/VMS to	The state of the s	• • •
•	VAXstation, MicroVAX, VAX	machine)
0286 Bare Ada	6000, VAX 8000 & VAX 9000	
Cross Compiler	Series of computers,	
System, Version 4.6	including Raytheon Military	
BASE	VAX computer model 860	
[‡] 901129S1.11079)	(under VMS Version 5.3)	
Validated by Registration		
DDC International A/S	DEC VAX-11, VAXserver,	Intel iSBC 286/12 in
PACS VAX/VMS to	VAXstation, MicroVAX, VAX	Protected Mode (bare
0286 PM Bare Ada	6000, VAX 8000 & VAX 9000	machine)
Cross Compiler	Series of computers,	
System, Version 4.6	including Raytheon Military	
BASE	VAX computer model 860	
	•	
[£] 901129S1.11079)	(under VMS Version 5.3)	
DDC International A/S	IBM PS/2 Model 80-311	Same as Host
ACS 80386 DMS/OS Ada	(under LynxOS 386/PS2,	
Compiler System, Version 4.6	Version 2.0A)	
#901129S1.11112)	- ,	
DDC International A/S	VAX 8530 (under VMS Version	Tadpole Technology plc
,		
PACS VAX/VMS to 80860 Bare Ada	5.3)	TP860M (bare machine)
Cross Compiler System, Version 4.6.1		
#910502S1.11158)		
DDC International A/S	Sun-3/50 (under SunOS	Motorola MVME143 board
ACS Sun-3/SunOS to 68030 Bare Ada	Release 4.0 Export)	(68030/68882) (bare machine)
	helease 4.0_Export)	(00000/00002) (Date Hachine)
Cross Compiler System, Version 4.6.4,		
MRI IEEE 695 (BASIC_MODE)		
#910502S1.11159)		
DDC International A/S	Sun-3/50 (under SunOS	Motorola MVME143 board
ACS Sun-3/SunOS to 68030 Bare Ada	Release 4.0 Export)	(68030/68882) (bare machine)
	holouse 4.0_Export	(00000) 00002) (5410 1114511110)
Cross Compiler System, Version 4.6.4,		
MRI IEEE 695 (SECURE_MODE)		
#910502S1.11160)		
DDC-I International A/S	VAX 8530 (under VMS Version	Same as Host
DACS VAX/VMS Native Ada	5.3)	
Compiler System, Version 4.6	/	
#901129S1.11050)		
·	Advantary order () to the control	Motorcia AB/AE/400 hassed
DDC-I	MicroVAX 3100 (under VMS	Motorola MVME133 board
nternational A/S	Version 5.3)	(68020/68881) (bare machine)
DACS VAX/VMS to 68020 Bare Cross		
Compiler System, Version 4.6		
#901129S1.11051)		
Validated by Besistration		
Validated by Registration DDC-I, Inc.	VAX 8530 (under VMS Version	Intel iSBC 486/125 (bare
DACS VAX/VMS to 80486 PM Bare Ada	5.3)	machine)
Cross Compiler System, Version 4.6		
BASE		
⁴ 901129S1.11074)	MicroVAX 3100 Cluster	InterACT MII -STD-1750A
901129S1.11074) DC-Inter, Inc.	MicroVAX 3100 Cluster	InterACT MIL-STD-1750A
901129S1.11074) DDC-Inter, Inc. nterACT Ada	MicroVAX 3100 Cluster (under VMS 5.2)	Instruction Set Architecture
#901129S1.11074) DDC-Inter, Inc. nterACT Ada 750A Compiler		Instruction Set Architecture Simulator Release 2.3 (bare
901129S1.11074) DDC-Inter, Inc. nterACT Ada		Instruction Set Architecture

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
DDC-Inter, inc. InterACT Ada MIPS Cross- Compiler System, Release 2.0 (#910705S1.11192)	MicroVAX 3100 Cluster (under VMS 5.2)	Lockheed Sanders STAR MVP R3000/R3010 Board (bare machine)
*Validated by Registration DDC-Inter, Inc. InterACT Ada MIPS Cross-Compiler System, Release 2.1 (BASE #910705S1.11192)	MicroVAX 3100 Cluster (under VMS 5.2)	Lockheed Sanders STAR MVP R3000/R3010 Board (bare machine)
Digital Equipment Corporation VAX Ada, Version 2.2 (#901109S1.11053)	VAX 8800 (under VMS Version 5.4)	Same as Host
*Validated by Registration Digital Equipment Corporation VAX Ada Version 2.2 (BASE #901109S1.11053)	DEC VAX-11, VAXserver, VAXstation, VAXft, MicroVAX, VAX 4000, VAX 6000, VAX 8000 & VAX 9000 Series of computers (as supported); Ratheon Military VAX Computer Model 860; and Norden MilVAX Computer Model MilVAX II (under VMS Version 5.4)	Any Host
Digital Equipment Corporation VAX Ada, Version 2.2 (#901109S1.11054)	VAX 8800 (under VMS Version 5.4)	MicroVAX II (under VAXELN Version 4.1, using VAXELN Ada Version 2.2)
*Validated by Registration Digital Equipment Corporation VAX Ada Version 2.2 (BASE #901109S1.11054)	DEC VAX-11, VAXserver, VAXstation, VAXft, MicroVAX, VAX 4000, VAX 6000, VAX 8000 & VAX 9000 Series of computers (as supported); Ratheon Military VAX Computer Model 860; and Norden MilVAX Computer Model MilVAX II (under VMS Version 5.4)	VAX 4000 Models 200 & 300; VAX 6000 Series 200, 300 & 400; VAX 8200, 8250, 8500, 8530, 8550, 8700, 8800 & 8810; VAX-11/730 & /750; MicroVAX II, 2000, 3100, 3300, 3400, 3500, 3600, 3800 & 3900; VAXstation 2000, 3100, 3150, 3200, 3500 & II/GPX; VAXserver 3100, 3300, 3400, 3500, 3600, 3800, 3900; VAXserver 4000-300; VAXserver 6000 Models 210, 220, 310, 320, 410 & 420; Ratheon Military VAX Computer Models 810 & 860; Norden MilVAX Computer Model MilVAX II, IVAX 620 & 630; VAX RTA; KA620-BA & KA800-M; rtVAX 300, 1000, 3200, 3300, 3305, 3400, 3500, 3600, 3800, 4000 Model 300, 8550, 8700, rtVAX 6000 Models 200, 300 & 400 Series and rtVAXstation 3100 Models 30 & 38 (under VAXELN Version 4.2, using VAXELN Ada Version 2.2)

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
Digital Equipment	VAX 6000 Model 200, 300 & 400	VAX 6000 Model 200, 300 & 400 Series;
Corporation	Series; VAX 8200, 8250, 8300, 8350,	VAX 8200, 8250, 8500, 8530, 8550, 8700,
VAX Ada Version 2.2	8500, 8530, 8550, 8600, 8650, 8700,	8800 & 8810; VAX-11/730 & /750; MicroVAX
(BASE	8800, 8810, 8820, 8830, 8840, 8842,	II, 2000, 3100, 3300, 3400, 3500, 3600, 3800
#901109S1.11054)	8974 & 8978; VAX-11/730, /750,	& 3900; VAXstation 2000, 3100, 3150, 3200,
	/780, /785; MicroVAX II, 2000, 3100,	3500 & II/GPX; VAXserver 3100, 3300, 3400,
	3300, 3400, 3500, 3600, 3800 & 3900;	3500, 3600, 3602, 3800, 3900; VAXserver
	VAXstation II, 2000, 3100 series, 3200,	6000 Models 210 220, 310, 320, 410 & 420;
	3500, 3520, 3540 & 8000; VAXserver 3100, 3300, 3400, 3500, 3600, 3602,	Ratheon Military VAX Computer Models 810 & 860; Norden Systems: Mil Vax II, IVAX 620
	3800, 3900; VAXserver 6000-310,	& 630; VAX RTA; KA620-BA, rtVAX 300, 1000,
	6000-410 & 6000-420; Ratheon Military	3200, 3300, 3305, 3400, 3500, 3600, 3800,
	VAX Computer Model 860 (under	8550, 8700, rtVAX 6000 Model 200, 300 &
	VMS Version 5.4)	400 Series & rtVAXstation 3100 Models 30 & 3
	,	(under VAXELN Version 4.1 using VAXELN Ada
		Version 2.2)
Digital Equipment Corporation	DECstation 5000 Model 200	Same as Host
DEC Ada, Version 1.0	(under ULTRIX 4.2)	
(#911025S1.11226)		
*Validated by Registration		
Digital Equipment	DECstation 2100, 3100, 3100s,	Any Host
Corporation	5000 Models 120/125, 120/125CX,	
DEC Ada, Version	120/125PXG, 120/125PXG TURBO,	
1.0 (BASE	200, 200CX, 200PX, 200PXG, 200PXG TURBO; and DECsystem 3100, 5000	
#911025\$1.11226)	Model 200, 5100, 5400, 5500, 5810,	
#91102501.11220)	5820, 5830 & 5840 (under ULTRIX	
	Versions 4.0, 4.1 & 4.2)	
*Validated by Registration		
Digital Equipment	DEC DECstation 2100, 3100, &	Any Host
Corporation	5000, and DECsystem 5000, 5100,	
DEC Ada, Version 1.0	5400, 5500, 5800, & 5900 series	
(BASE	of computers (under ULTRIX	
#911025S1.11226)	Versions 4.0, 4.1, 4.2, & 4.2A)	
E-Systems/ECI Division	Tolerant Eternity (under	Same as Host
Tolerant Ada Development	TX, 5.4.0)	
System, Version 6.0		
(#901003W1.11039)		
Encore Computer	Encore 91 Series Model	Same as Host
Corporation	91-0340 (under UMAX 3.0)	
Parallel Ada Development		
System, Revision 1.0 (#910130W1.11114)		
,		
*Validated by Registration	San and Outline all	A 1 lo-4
Encore Computer	Encore 91 Series, all	Any Host
Corporation Parallel Ada Development	models (under UMAX 3.0)	
System, Revision 1.0		
(BASE		
#910130W1.11114)		
Encore Computer	Encore 91 Series Model	Encore 91 Series Model
Corporation	91-0340 (under UMAX 3.0)	91-0430 (under uMPX 1.0)
Parallel Ada Development	,	
System, Revision 1.0		
(#910130W1.11115)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
Encore Computer	Encore 91 Series, all	Encore 91 Series, all models
Corporation	models (under UMAX 3.0)	(under microMPX 1.0)
Parallel Ada Development	models (under olithex 5.0)	(dilder fillerolali x 1.0)
System, Revision 1.0		
(BASE		
#910130W1.11115)		
GSE Gesellschaft	MIPS M/120 RISComputer	Same as Host
ur Software-	(under UMIPS 4.51)	
Engineering mbH	,	
Meridian Ada, Version 4.1		
(#910711W1.11180)		
SSE Gesellschaft	IRM DISC System 6000/500	Same as Host
ur Software-	IBM RISC System 6000/520	Same as Host
	(under AIX Version 3)	
Engineering mbH		
Meridian Ada, Version 4.1		
#910711W1.11182)		
GSE Gesellschaft	HP 9000 Series 400 Model	Same as Host
ur Software-	400T (under HP-UX 7.03)	
Engineering mbH		
Meridian Ada, Version 4.1		
#910711W1.11184)		
SSE Conclination	Consumed Constitution	Come on Host
GSE Gesellschaft	Concurrent Computer	Same as Host
ur Software-	Corporation M6000 Model	
Engineering mbH	6450 (under RTU 5.0C)	
Meridian Ada, Version 4.1		
(#910711W1.11186)		
GSE Gesellschaft	Concurrent Computer	Same as Host
ur Software-	Corporation M8000 Model	
Engineering mbH	8500 (under RTU 5.1A)	
Meridian Ada, Version 4.1		
#910711W1.11187)		
GSE Gesellschaft	Data General AMION 400	Same as Host
ur Software-	Data General AViiON 400	Dame as most
	Model 402 (under DG/UX	
Engineering mbH	4.31)	
Meridian Ada, Version 4.1		
#910711W1.11188)		
GSE Gesellschaft	HP 9000 Series 700 Model	Same as Host
ur Software-	720 (under HP-UX 8.01)	
Engineering mbH	(
Meridian Ada, Version 4.1		
#910711W1.11190)		
Harris	Horsin NIL 4400 (under OV/IIIV	Same as Host
	Harris NH-4400 (under CX/UX	Daille as Fiusi
Corporation,	5.1)	
Computer Systems Division		
Harris Ada 5.1		
#900918W1.11028)		
Validated by Registration		
Harris	Harris NH-4400 (under CX/UX	Any Host
Corporation,	5.1, CX/RT 5.1, OR CX/SX	
Computer Systems Division	5.1)	
Harris Ada 5.1	J. 1)	
BASE		
#900918W1.11028)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Malidated by Docistration		
Validated by Registration	Hamis All LAGO (codes OV (NV	Comp. on Unit
larris .	Harris NH-4400 (under CX/UX	Same as Host
Corporation,	5.2, CX/RT 5.2 & CX/SX 5.2)	
Computer Systems Division		
larris Ada		
Compiler, Version 5.1		
BASE		
900918W1.11028)		
Malidakad bu Daniskaskia		
Validated by Registration		
larris	Harris NH-4400 & NH-4800	Any Host (using either
Corporation,	(under CX/UX 5.3, CX/RT 5.3	Harris Ada Run-time System
Computer Systems	& CX/SX 5.3)	or ARMS Run-time System)
Division	, ,	•
larris Ada 5.1.1		
BASE		
⁽ 900918W1.11028)		
Validated by Registration		
larris e	NH-4400 & NH-4800 (under	Any Host (using either
Corporation,	CX/UX 6.1, CX/RT 6.1, &	Harris Ada Run-time System
Computer Systems	CX/SX 6.1)	or ARMS Run-time System)
Division	0,4 0,1 0,1,	or realist allo opolorily
Harris Ada		
Compiler 5.1.1		
BASE		
[‡] 900918W1.11028)		
larris	Harris NH-3800 (under CX/UX	Same as Host
		Sairie as riost
Corporation,	5.1)	
Computer Systems Division		
larris Ada 5.1		
#900918W1.11029)		
Validated by Registration		
Harris	Harris NH-1200, NH-3400 &	Any Host
		Ally Host
Corporation,	NH-3800 (under CX/UX 5.1,	
computer Systems	CX/RT 5.1, OR CX/SX 5.1)	
Pivision		
farris Ada 5.1		
BASE		
900918W1.11029)		
·		
Validated by Registration		0
larris	NH-1200, NH-3400 & NH-3800	Same as Host
Corporation,	(under CX/UX 5.2, CX/RT 5.2	
Computer Systems	& CX/SX 5.2)	
ivision	, ,	
Harris Ada		
compiler, Version		
•		
.1		
BASE		
^(900918W1.11029)		
Validated by Registration		
farris	Harris NH-1200 NH-2400 2	Any Host
	Harris NH-1200, NH-3400 &	Ally 1 lost
corporation,	NH-3800 (under CX/UX 5.3,	
Computer Systems	CX/RT 5.3 & CX/SX 5.3)	
Division Harris Ada 5.1.1		
Pivision		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
,		
*Validated by Registration		
Harris	Harris NH-1200, NH-3400, &	Any Host
Corporation,	NH-3800 (under CX/UX 6.1,	· · · · · · · · · · · · · · · · · · ·
Computer Systems	CX/RT 6.1, & CX/SX 6.1)	
Division	5. y 5 , a. 6. y 2 5 ,	
Harris Ada		
Compiler 5.1.1		
(BASE		
#900918W1.11029)		
#300310VV1.11023)		
Hewiett-Packard	DN4500 (under Domain/OS	Same as Host
Co./Apolio	SR10.3)	
Systems Division	2	
Domain Ada V6.0m		
(#910411W1.11137)		
Hewlett-Packard	DN10000 (under Domain/OS	Same as Host
Co./Apollo	SR10.3.p)	Carrio do 11900
Systems Division	G(10.3.p)	
Domain Ada V6.0p		
(#910411W1.11138)		
Hewlett-Packard	HP 9000 Series 300 Model	Same as Host
Company	370 (under HP-UX, Version	Quillo do Figot
• •		
HP 9000 Series	A.07.00)	
300 Ada Compiler, Version 5.35		
(#901022W1.11049)		
*Validated by Registration		
Hewlett-Packard	HP 9000 Series 300 & 400,	Any Host
	· · · · · · · · · · · · · · · · · · ·	Ally Host
Company	all models (under HP-UX,	
HP 9000 Series	Version A.B7.03)	
300 Ada Compiler, Version 5.35		
(BASE		
#901022W1.11049)		
*\folidated by Bogistration		
*Validated by Registration	UD 0000 Carina 200 8 400	Any Heat from the same
Hewlett-Packard	HP 9000 Series 300 & 400,	Any Host from the same
Company	aii Modeis (under HP-UX,	Series, under the same OS
HP 9000 Series	Versions A.B7.00 (release	version
300 Ada Compiler,	7.0), A.B7.03 (release	
Version 5.35t	7.3), A.B7.05 (release 7.5)	
(BASE	& A.B8.00 (release 8.0), as	
#901022W1.11049)	supported)	
Hewlett-Packard	HP 9000 Series 700 Model	Same as Host
Company	720 (under HP-UX, Version	
HP 9000 Series	A.B8.05 (release 8.05))	
700/800 Ada		
Compiler, Version 5.35		
(#911107W1.11227)		
Hewlett-Packard	HP 9000 Series 800 Model	Same as Host
Company	835 (under HP-UX, Version	
HP 9000 Series	A.B8.00 (release 8.00))	
700/800 Ada		
Compiler, Version 5.35		
(#911107W1.11228)		
IBM Canada, Ltd.	RISC System/6000 model	Same as Host
AIX Ada/6000	7013-530 (under AIX 3.1)	
•		
Release 2, Preliminary Version		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
CERTIFICATE #	MACIINE & (00)	MACHINE & (05)
Validated by Registration		
BM Canada, Ltd.	RISC System/6000 models	Any Host
IX Ada/6000	7013-320, -520, -530, -540,	· ·
Release 2.0	-550, -730 & -930 (under	
BASE	AIX 3.1)	
#901127W1.11085)	, 2.0,	
Validated by Registration		
BM Canada, Ltd.	RISC System/6000 models	Any Host, running same AIX
MX Ada/6000	7013-320, -520, -530, -540,	version as Host
Release 2.2	-550, -730, & -930 (under	10.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
BASE	AIX 3.1 & 3.2)	
#901127W1.11085)	717 3.1 d 3.2)	
DM Canada IAd	DICC Contain (COCC model	Como no Host
BM Canada, Ltd.	RISC System/6000 model	Same as Host
IX Ada/6000	7012-320 (under AIX 3.2)	
iternal Development ersion		
#920121W1.11234)		
ntel Corporation	Intel i860 Station (under	Intel iPSC/860 (under
PSC/860 Ada Release 6.1.0(E)	•	Ada-NX, Release 3.3.1)
	Unix System V/860, Version	Aua-NA, nelease 3.3.1)
Inix System V/860 Release 4	4)	
ersion 3, 312425-0001		
¥920513W1.11255)		
termetrics, Inc.	IBM 3083 (under UTS 580	Same as Host
TS Ada Compiler, Version 302.03	Release 1.2.3)	
#910425W1.11141)		
ntermetrics, Inc.	Amdahl 5890/180E (under	Same as Host
ntermetrics MVS	MVS/XA Release 2.2)	
da Compiler, Version 7.0	•	
#910622W1.11170)		
nternational	IBM 3083 (under VM/SP HPO	Same as Host
Business Machines Corporation	Release 5.0)	
BM Ada/370, Version 1.1.0	100000 0.0)	
⊭901128W1.11091)		
Validated by Registration		
temational	IBM 3090 (under VM/ESA	Same as Host
usiness Machines	Release 1.0 ESA Feature)	
orporation		
BM Ada/370, Version 1.1.0		
BASE		
901128W1.11091)		
/alidated by Registration		
Validated by Registration	IDM 0004 (up do 174 /FOA	Same as Host
nternational	IBM 3084 (under VM/ESA	Dame as most
usiness Machines	Release 1.0 370 Feature)	
orporation		
BM Ada/370, Version 1.1.0 BASE		
901128W1.11091)		
·		
Validated by Registration	IDM 0000 / doc 1/84 0/4	Cama as Hast
nternational	IBM 3090 (under VM/XA	Same as Host
usiness Machines	Release 2.1)	
orporation		
BM Ada/370, Version 1.1.0		
BASE		
901128W1.11091)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
MALINA AND DESCRIPTION OF		
*Validated by Registration	IDM 0000 /	0
International	IBM 3090 (under VM/SP	Same as Host
Business Machines Corporation IBM Ada/370, Version 1.1.0	Release 6.0 HPO 60)	
(BASE		
#901128W1.11091)		
International	IBM 4381 (under MVS/XA	Same as Host
Business Machines Corporation	Release 3.8)	
IBM Ada/370, Version 1.1.0	·	
(#901128W1.11092)		
*Validated by Registration		
International	IBM 3090 (under MVS/ESA	Same as Host
Business Machines Corporation	Release 4.1)	
IBM Ada/370, Version 1.1.0	,	
(BASE		
#901128W1.11092)		
International	IBM 3083 (under VM/SP HPO	Same as Host
Business Machines Corporation	Release 5.0)	
IBM Ada/370, Version 1.2.0	·	
(optimized)		
(#910612W1.11166)		
International	IBM 4381 (under MVS/ESA	Same as Host
Business Machines	Release 3.1)	
Corporation		
IBM Ada/370, Version 1.2.0		
(optimized)		
(#910612W1.11167)		
International	IBM 3083 (under VM/SP HPO	Same as Host
Business Machines	Release 5.0)	
Corporation		
IBM Ada/370, Version 1.2.0		
(unoptimized) (#010612)W1 11169)		
(#910612W1.11168)		
*Validated by Registration	IDM 0000 (viz.do-1/8/ (CD 1/DC	IDM 007/2 40: 000: 0000 9
International	IBM 3090 (under VM/SP HPO	IBM 937x, 43xx, 308x, 3090 &
Business Machines Corporation	6.0)	ES/9000 processors (under VM/SP HPO 6.0)
IBM Ada/370, Version 1.2.0		VIVI/ OF THE O 0.0/
(BASE		
#910612W1.11168)		
*Validated by Registration		
International	IBM 3090 (under VM/XA 2.1)	IBM 937x, 43xx, 308x, 3090 &
Business Machines	0000 (midd) 1111/741 2.17	ES/9000 processors (under
Corporation		VM/XA 2.1)
IBM Ada/370, Version 1.2.0		•
(BASE		
#910612W1.11168)		
*Validated by Registration		
nternational	IBM 3084 (under VM/ESA	IBM 937x, 43xx, 308x, 3090 &
Business Machines	1.1.0 (370 Feature))	ES/9000 processors (under
Corporation		VM/ESA 1.1.0 (370 Feature)))
IBM Ada/370, Version 1.2.0		
(BASE		
#910612W1.11168)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
nternational	IBM 3090 (under VM/ESA	IBM 937x, 43xx, 308x, 3090 &
Business Machines	· · · · · · · · · · · · · · · · · · ·	· · · · ·
	1.1.0 (ESA Feature))	ES/9000 processors (under VM/ESA 1.1.0 (ESA Feature))
Corporation		VM/ESA 1.1.0 (ESA Feature))
BM Ada/370, Version 1.2.0		
(BASE #910612W1.11168)		
#910012W1.11100)		
Validated by Registration		
nternational	IBM 3090 (under VM/ESA	IBM 937x, 43xx, 308x, 3090 &
Business Machines	1.1.1)	ES/9000 processors (under
Corporation		VM/ESA 1.1.1)
BM Ada/370, Version 1.2.0		
BASE		
#910612W1.11168)		
nternational	IBM 4381 (under MVS/ESA	Same as Host
Business Machines	Release 3.1)	
Corporation		
BM Ada/370, Version 1.2.0		
(unoptimized)		
unoptimized) [#910612W1.11169)		
,,, 0.0012441.11100)		
Validated by Registration		
nternational	IBM 3090 (under MVS/SP XA	IBM 937x, 43xx, 308x, 3090 &
Business Machines	2.2)	ES/9000 processors (under
Corporation	 /	MVS/SP XA 2.2)
BM Ada/370, Version 1.2.0		11110/01 74 2.2/
BASE		
#910612W1.11169)		
Validated by Registration		
nternational	IRM 2000 (upder MACE/ECA	IDM 037v 43vv 300v 3000 8
	IBM 3090 (under MVS/ESA	IBM 937x, 43xx, 308x, 3090 &
Business Machines	Release 4.1.0)	ES/9000 processors (MVS/ESA
Corporation		Release 4.1.0)
BM Ada/370, Version 1.2.0		
BASE		
#910612W1.11169)		
Validated by Registration		
nternational	IBM 3090 (under MVS/ESA	IBM 937x, 43xx, 308x, 3090 &
Business Machines Corporation	Release 4.2.0)	ES/9000 processors (MVS/ESA
BM Ada/370, Version 1.2.0	·	Release 4.2.0)
BASE		
#910612W1.11169)		
nternational	ICL Series 20 Level 20	Same as Host
nternational	ICL Series 39 Level 80	Same as Host
Computers Limited	(under VME with VMEB	
VME Ada Compiler VA3,00	Environment Option Version	
#911003N1.11222)	SV291)	
rvine Compiler Corporation	HP 9000 Model 720 (under	Same as Host
CC Ada v7.0.0	HP-UX Release 8.01)	
(#910510W1.11145)	2.7	
ovine Compiler Corporation	Sup 3/50 (under Sup OS V/4 0)	Same as Host
rvine Compiler Corporation	Sun 3/50 (under SunOS V4.0)	Jaille as Most
CC Ada v7.0.0		
(#910510W1.11146)		
rvine Compiler Corporation	HP 9000 Model 400 (under	Same as Host
CC Ada v7.0.0	HP-UX Release 7.03)	
#910510W1.11147)	•	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
rvine Compiler	VAXstation 3100 Model M38	Intel i80960MC (bare
Corporation	(under VMS 5.3-1)	machine)
CC Ada v7.0.0	(411401 41410 3.0-1)	madrino)
#910510W1.11148)		
Meridian Software	Sun-3/260 (under SunOS,	Same as Host
Systems, Inc.	Version 4.1)	
Meridian Ada, Version 4.1	,	
#900909W1.11031)		
Meridian Software	Sun-4/110 (under SunOS,	Same as Host
Systems, Inc.	Version 4.1)	
Meridian Ada, Version 4.1	·	
#900909W1.11032)		
Validated by Registration		
Meridian Software	Sun Microsystems Sun-4,	Any Host
Systems, Inc.	SPARCserver & SPARCstation	
Meridian Ada, Version 4.1	computer families (under	
BASE	SunOS Versions 4.1 & 4.1.1)	
#900909W1.11032)		
Meridian Software	DECstation 3100 (under	Same as Host
Systems, Inc.	Ultrix, Version 3.0)	
Meridian Ada, Version 4.1		
(#900909W1.11033)		
Validated by Registration		
Meridian Software	DECstation 2100, 3100 &	Any Host
Systems, Inc.	5000 (under Ultrix 3.0)	
Meridian Ada, Version 4.1		
BASE #900909W1.11033)		
·	IPM DC /O Model CO /cdah	Same as Heat
Meridian Software	IBM PS/2 Model 60 (with	Same as Host
Systems, Inc.	Floating-Point	
Meridian Ada, Version 4.1	Co-Processor) (under IBM	
(#900909W1.11034)	PC-DOS 3.30)	
•		
Validated by Registration Meridian Software	Any Computer System	Any Host
Systems, Inc.	comprising: cpu: any that	751y 1100t
Meridian Ada.	executes the Intel 80286.	
Version 4.1	80386, or 80486 instruction	
BASE	set, fpu: Intel 80287,	
#900909W1.11034)	80387, or equivalent, as	
,	appropriate, memory: 640	
	KByte RAM minimum, disk: 20	
	MByte hard drive, OS: IBM	
	PC-DOS 3.30	
Validated by Registration		
Meridian Software	Any Computer System	Any Host
Systems, Inc.	Comprising: Cpu: any that	
Meridian Ada,	executes the Intel 80286,	
Version 4.1.1	80386, or 80486 instruction set;	
BASE	Fpu: Intel 80287, 80387, or	
#900909W1.11034)	equivalent, as appropriate; Memory:	
	640 or greater KByte RAM; Disk: 20	
	MByte hard drive (under IBM	
	PC-DOS 3.30)	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Meridian Software	IBM PS/2 Model 30 (with	Same as Host
Systems, Inc.	Floating-Point	
Meridian Ada, Version 4.1	Co-Processor) (under IBM	
#900909W1.11035)	PC-DOS 3.30)	
Validated by Registration		
Meridian Software	Any Computer System comprising:	Any Host
Systems, Inc.	cpu: any that executes the Intel	,
Meridian Ada,	8086 instruction set, fpu: Intel 8087	
Version 4.1	or equivalent, as appropriate,	
BASE	memory: 640 KByte RAM minimum,	
¥900909W1.11035)	disk: 20 MByte hard drive, OS: IBM PC-DOS 3.30	
Validated by Registration	A O	Anii 1 Inna
Meridian Software	Any Computer System Comprising:	Any Host
Systems, Inc.	Cpu: any that executes the Intel	
Meridian Ada,	8086 instruction set; Fpu: Intel 8087	
/ersion 4.1.1	or equivalent, as appropriate; Memory:	
BASE	640 or greater KByte RAM; Disk: 20	
¥900909W1.11035)	MByte hard drive (under IBM	
·	PC-DOS 3.30)	
Meridian Software	ITT XTRA/286 (with	Same as Host
Systems, Inc.	Floating-Point	Callio ad 1 loca
Meridian Ada,	•	
•	Co-Processor) (under MS-DOS	
/ersion 4.1	3.20/OS286)	
#900909W1.11036)		
Validated by Registration		
Meridian Software	Any Computer System comprising:	Any Host
Systems, Inc.	cpu: any that executes the Intel	
Meridian Ada,	80286, 80386, or 80486 instruction	
ersion 4.1	set, fpu: Intel 80287, 80387, or	
BASE	equivalent, as appropriate, memory:	
£900909W1.11036)	1.5 MByte RAM minimum, disk: 20	
,	MByte hard drive, OS:	
	MS-DOS 3.20/OS286	
Validated by Registration		
Meridian Software	Any Computer System comprising:	Any Host
Systems, Inc.	Cpu: any that executes the Intel	
Meridian Ada,	80286, 80386, or 80486 instruction	
Version 4.1.1	set; Fpu: Intel 80287, 80387, or	
BASE	equivalent, as appropriate; Memory:	
[£] 900909W1.11036)	1.5 or greater MByte RAM; Disk: 20	
	MByte hard drive (under MS-DOS	
	3.30/OS286)	
Meridian Software	80 Data 386/25 (under	Same as Host
Systems, Inc.	386/ix 1.0.6)	
Meridian Ada, Version 4.1		
#900909W1.11037)		
Validated by Registration		
Meridian Software	Any Computer System comprising:	Any Host machine running the
Systems, Inc.	cpu: any that executes the Intel	same OS
•	80386 or 80486 instruction set,	22
	fpu: optional Intel 80387 or	
Meridian Ada, Mersion 4.1		
/ersion 4.1	•	
/ersion 4.1	equivalent, for 80386 cpu, memory:	
/ersion 4.1	•	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Validated by Registration		
Meridian Software	Sequent Symmetry 2000/40,	Any Host
Systems, Inc.	/200, /400 & /700 (under	
Meridian Ada,	DYNIX/ptx V1.2.0)	
/ersion 4.1		
BASE		
¥900909W1.11037)		
Validated by Registration		
Meridian Software	Any Computer System	Any Host with the same OS
systems, Inc.	Comprising: Cpu: any that	
Meridian Ada,	executes the Intel 80386 or	
Version 4.1.1	80486 instruction set; Fpu:	
BASE	Intel 80387 or equivalent,	
¥900909W1.11037)	for 80386 cpu; Memory: 2 or	
	greater MByte RAM; Disk: 40	
	MByte hard drive (under SCO	
	Unix 3.2 or INTERACTIVE	
	UNIX System V/386 Release	
	3.2)	
Meridian Software	Apple Macintosh II (under	Same as Host
Systems, Inc.	System 6.0.3)	Carrio do Fiost
	System 6.0.3)	
Meridian Ada,		
ersion 4.1		
#900909W1.11038)		
Validated by Registration		
Meridian Software	Apple Macintosh SE 30	Same as Host
Systems, Inc.	(under System 6.0.3)	
Meridian Ada, Version 4.1	(and an experience)	
BASE		
#900909W1.11038)		
facialis a Osfa succ	A stable to shall dead	O and a Hart
Meridian Software	Apple Macintosh II (under	Same as Host
Systems, Inc.	A/UX 2.0)	
Meridian Ada, Version 4.1		
#901108W1.11060)		
Meridian Software	Stardent Titan P3 (under	Same as Host
Systems, Inc.	Stardent/Unix 3.0)	
Meridian Ada, Version 4.1	, ,	
#901108W1.11061)		
Meridian Software	MicroVAX 2100 (under Ultris	Same as Host
	MicroVAX 3100 (under Ultrix	Sallie as Fiust
systems, Inc.	3.1)	
Meridian Ada, Version 4.1		
#901108W1.11062)		
Meridian Software	MicroVAX II (under VMS 5.2)	Same as Host
Systems, Inc.	,	
Meridian Ada, Version 4.1		
#901108W1.11063)		
Agridian Sathyers	IDM DC/2 Model CO (with	Same as Hant
Meridian Software	IBM PS/2 Model 80 (with	Same as Host
Systems, Inc.	Floating Point	
Meridian Ada, Version 4.1.1	Co-Processor) (under IBM	
#911002W1.11218)	PC-DOS 3.30/OS386)	
feridian Software	NeXTstation (under System	Same as Host
	· · · · · · · · · · · · · · · · · · ·	
ivstems, inc.	Helease 2.01	
systems, Inc. Meridian Ada, Version 4.1	Release 2.0)	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Meridian Software	SGI PowerSeries 4D/310S	Mercury MC860 VM (under
Systems, Inc.	(under IRIX Sys V 3.3.2)	MC/OS, Version 2.0)
Meridian Ada, Version 4.1	(dilder into dys v 3.3.2)	1410/03, 46131011 2.0)
#911002W1.11220)		
Validated by Registration		
Meridian Software	SGI PowerSeries 4D/310S	Mercury MC860VB & MC860VM
Systems, Inc.	(under IRIX Sys V 3.3.2)	(under MC/OS, Version 2.0)
Meridian Ada, Version 4.1		
BASE		
#911002W1.11220)		
Validated by Registration		
Meridian Software	SGI PowerSeries 4D/310S	Mercury MC860VS (under
Systems, Inc.	(under IRIX Sys V 3.3.2)	MC/OS, Version 2.VS)
Meridian Ada, Version 4.1		
BASE		
#911002W1.11220)		
Meridian Software	Sun-4/110 (under SunOS,	Mercury MC860 VM (under
Systems, Inc.	Version 4.1)	MC/OS, Version 2.0)
Meridian Ada, Version 4.1		
#911002W1.11221)		
Validated by Registration		
Meridian Software	Sun Microsystems Sun-4/110,	Mercury MC860VB & MC860VM
Systems, Inc.	/150, /260 & /280;	(under MC/OS, Version 2.0)
Meridian Ada,	SPARCserver 330, 370, 390,	and Mercury MC860VS (under
Version 4.1	470 & 490; and SPARCstation	MC/OS, Version 2.VS)
BASE	2, IPC & IPX (under SunOS	
#911002W1.11221)	Versions 4.1 & 4.1.1) and	
	SPARCengine 1E (under SunOS	
	Version 4.1e)	
Meridian Software	Sequoia Series 400 (under	Same as Host
Systems, Inc.	Topix, Version 6.5)	
Meridian Ada, Version 4.1		
#911216W1.11232)		
IIPS Computer	MIPS M/2000 (under RISC/os	R3200-6 CPU board (bare
Systems	4.50)	machine)
MIPS ASAPP 3.0		
#900619W1.11010)		
AIPS Computer	MIPS M/2000 (under RISC/os	Same as Host
Systems	4.50)	
MIPS Ada 3.0		
#900619W1.11011)		
NEC Corporation	NEC EWS4800/220 (under	Same as Host
NEC Ada Compiler	EWS-UX/V (Release 4.0)	
System for EWS-UX/V	R2.1)	
Release 4.0), Version		
Release 2.1(4.6)		
#910918S1.11216)		
NEC Corporation	NEC EWS4800/60 (under	NEC MV4000 (under RX-UX832
120 Colporation		
	EWS-UX/V R8.1)	V1.6)
NEC Ada Compiler	EWS-UX/V R8.1)	V1.6)
NEC Ada Compiler System for EWS-UX/V to V70/RX-UX832, Version 1.0	EWS-UX/V R8.1)	V1.6)

*Validated by Registration NEC Corporation NEC Ada Compiler System	MACHINE & (OS) All RISC (MIPS R3000- &	MACHINE & (OS)
NEC Corporation	All RISC (MIPS R3000- &	
NEC Corporation	All RISC (MIPS R3000- &	
NEC Ada Compiler System		NEC MV4000 (under RX-UX832
	R4000-based) models of the	V1.6)
or EWS-UX/V (Rel 4.0) to	EWS4800 series (under	,
V70/RX-UX832, Version 1.0	EWS-UX/V (4.0) R2.1)	
(BASE	2110 074 (110) (211)	
#910918S1.11217)		
North China	MicroVAX II (under ULTRIX	Same as Host
nstitute of	3.0)	Carrie as riest
	3.0)	
Computing Technology		
C_Ada, Version 1.0		
(#910902N1.11198)		
Proprietary	VAX 8350 (under VMS Version	PSS Zoran ZR34325 Digital
Software Systems, Inc.	5.4)	Signal Processor AdaRAID
PSS VAX/ZR34325		Version XK-01.000 (bare
Compiler Version XB-01.000		machine simulation,
(#920423I1.11250)		executing on the Host)
R Software Inc	IRM PS/2 Model 90 (under	IRM PS/2 Model 80 (under MS
R.R. Software, Inc.	IBM PS/2 Model 80 (under	IBM PS/2 Model 80 (under MS
Janus/Ada 2.2.0	Phar Lap/DOS 3.3)	DOS 3.3)
Phar Lap/DOS		
(#901120W1.11088)		
Validated by Registration		
R.R. Software,	Any Computer System	Any Computer System
nc.	Comprising: cpu: Intel	Comprising: cpu: Intel
Janus/Ada 2.2.0	80386, fpu: optional,	80386, fpu: optional,
Phar Lap/DOS	memory: 4 MByte RAM, disk:	memory: 4 MByte RAM, disk:
BASE	40 MByte hard drive (under	40 MByte hard drive (under
#901120W1.11088)	Phar Lap/DOS 3.3)	MS DOS 3.3)
R.R. Software,	Northgate 386/25 (under SCO	Same as Host
nc.	- · · · · · · · · · · · · · · · · · · ·	Same as nost
	Unix 3.2)	
Janus/Ada 2.2.0 Unix #901129W1.11089)		
ŕ		
Validated by Registration	Anna Commandos Contrari	Comp on Lloss
R.R. Software,	Any Computer System	Same as Host
nc.	Comprising: cpu: Intel	
Janus/Ada 2.2.0	80386, fpu: optional,	
JNIX	memory: 4 MByte RAM, disk:	
BASE	60 MByte hard drive (under	
#901129W1.11089)	SCO Unix 3.2)	
Rational	R1000 Series 300 (under	Phillips PG2100 (OS-2000
M68020/OS-2000	Rational Environment	Release 2.0)
Cross-Development	Version D_12_24_0)	
Facility, Version 7	VOISION D_12_24_0)	
(#901116W1.11081)		
Rational	R1000 Series 300 (under	HP 9000 Model 370MH (under
M68020/Unix	Rational Environment	HP-UX Version 7.0)
Cross-Development	Version D_12_24_0)	
Facility, Version 7		
•		
Facility, Version 7 #901116W1.11082)	R1000 Series 300 (under	Motoroja MVME135 (68020)
Facility, Version 7 (#901116W1.11082) Rational	R1000 Series 300 (under	Motorola MVME135 (68020)
Facility, Version 7 (#901116W1.11082) Rational M68020/Bare	Rational Environment	Motorola MVME135 (68020) (bare machine)
Facility, Version 7 (#901116W1.11082) Rational	•	

### AVX-station, MicroVAX, VAX Doop Composition	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Rational Pational Environment Pational	Potional	D1000 Code - 000 (m)	Company Host
Servicement, D. 12, 24, 0 Version D. 12, 24 (0)		•	Same as nost
Validated by Registration			
Validated by Registration DEC VAX-11, VAXsarver, VAXstation, MicroVAX, VAX CAPS/AAMP1 (bare machine) VAXstation, VAXstation, MicroVAX, VAX CAPS/AAMP2 (bare machine) VAXstation, VAX CAPS/AAMP1 (bare machine) VAXstation, VAX CAPS/AAMP2 (bare machine) VAXstation, VAXst		Version D_12_24_0)	
DEC VAX-11, VAXserver, tetranshoral vaxistation, MicroVAX, VAX	#901116W1.11084)		
VAX-station, MicroVAX, VAX Compiler, Version 6.1	Validated by Registration		
Discreption Cooperation	Rockwell	DEC VAX-11, VAXserver,	CAPS/AAMP1 (bare machine)
Disclassed Series of computers (under VMS Versions 5.3-1 & 5.4)	nternational	VAXstation, MicroVAX, VAX	
Discrepance	Corporation	6000, VAX 8000 & VAX 9000	
May CAPS Compiler, Version 6.1 VMS Versions 5.3-1 & 5.4) BASE #900306W1.11129) VAIIdated by Registration lockwell DicCovered DEC VAX-11, VAX-server, VAX 8000 & VAX 9000 Series of computers (under VMS Versions 5.3-1 & 5.4) CAPS/AAMP2 (bare machine) DEC VAX-11, VAX-server, VAX 8000, VAX 8000 & VAX 9000 Series of computers (under VMS Versions 5.3-1 & 5.4) CAPS/AAMP2 (bare machine) BASE #900306W1.11130) VAX 8650 (under VMS, Version 5.3-1) CAPS/AAMP1 (bare machine) DCD-Based Ada/CAPS Dompiler, Version 6.0 #910306W1.11129) VAX 8650 (under VMS, Version 5.3-1) CAPS/AAMP2 (bare machine) Molecwell International Corporation DC-Based Ada/CAPS Dompiler, Version 6.0 #910306W1.11130) VAX Station 3100 Model 30 (under VMS 5.4) CAPS/AAMP2 (bare machine) Molecwell International Corporation DC-Based Ada/CAPS DC-Based A	•		
### PASSE ### PAGOSOMENT 11729 **Validated by Registration DEC VAX-11, VAXserver,			
Validated by Registration DEC VAX-11, VAXserver, CAPS/AAMP2 (bare machine) DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX S000, VAX S0		VIII VOIDIO 010 1 C 0. 17	
DEC VAX-11, VAX-server, VAX-station MicroVAX, VAX-station MicroV			
DEC VAX-11, VAX-server, VAX-station, MicroVAX, VAX-station, MicroVAX-station, Mic	Validated by Registration		
International Support of Compiler (Version 6.1 body Nat 2000 & VAX 2000 & VAX 2000 body Nat 2000 & VAX 2000 &		DEC VAY-11 VAYSASIST	CAPS/AAMP2 (here machine)
Dockson Cape			CAFS/MIVIFZ (Date Machine)
Dic_Based Series of computers (under VMS Compiler, Version 6.1			
Ada/CAPS Compiler, Version 6.1 VMS Versions 5.3-1 & 5.4) BASE #900006W1.11130) VAX 8650 (under VMS, Version 5.3-1) Bockwell International Opporation DDC-Based Ada/CAPS Compiler, Version 6.0 #910306W1.11129) VAX station 3100 Model 30 (under VMS 5.4) Bockwell International Corporation ODC-Based Ada/CAPS Compiler, Version 6.0 #910306W1.11130) VAX cluster (comprising (under VMS 5.4) BO-CBased Ada/CAPS Compiler, Version 6.0 #910306W1.11130) VAX Cluster (comprising (under VMS 5.4) BO-Scicon UK Ltd (DAda MCs8020, VAXserver 3600, MicroVAX II machines) (under VMS Version 5.3) Motorola MVME133XT board (MCs8020) (bare machine) Validated by Registration SD-Scicon UK Ltd (DAda MCs8020) VAXserver 3600, MicroVAX II machines) (under VMS Version 5.3) Motorola MVME135-1 board (MCs8020) and Motorola MVME1475-1 board (MCs8020) and Motorola MVME1475-1 board (MCs8030) (bare machines) Validated by Registration SD-Scicon UK Ltd (DAda MCs8020) VAXserver 3600, MicroVAX II machines) (under VMS 5.3) Motorola MVME133XT board (MCs8020) (bare machines) Validated by Registration SD-Scicon UK Ltd (DAda MCs8020) VAXserver 3600, MicroVAX II machines) (under VMS 5.4) Motorola MVME133XT board (MCs8020) (bare machine) Validated by Registration SD-Scicon UK Ltd (DAda MCs8020) VAXserver 3600, MicroVAX II machines) (under VMS 5.4) Motorola MVME135-1 (MCs8020) (bare machines) Validated by Registration SD-Scicon UK Ltd (DAda MCs8020) VAXserver 3600, MicroVAX (BASE00) (bare machines) Motorola MV	•		
BASE		•	
#900306W1.11130) Rockwell	Ada/CAPS Compiler, Version 6.1	VMS Versions 5.3-1 & 5.4)	
CAPS/AAMP1 (bare machine) CAPS/AAMP2 (bare machine)	BASE		
### Notes of the Comprising	#900306W1.11130)		
Version 5.3-1 Version 5.3-1 Version 5.3-1 Version 5.3-1 Version 5.3-1 Version 5.0 Version 6.0 Vers	Rockwell	VAX 8650 (under VMS,	CAPS/AAMP1 (bare machine)
Doc-Passed Ada/CAPS	nternational		• • •
Dic-Based Ada/CAPS Compiler, Version 6.0	Corporation	,	
Dompiler, Version 6.0	•		
#910306W1.11129) Bockwell VAXstation 3100 Model 30 (under VMS 5.4) Bockwell VAXstation 3100 Model 30 (under VMS 5.4) Bockwell VAXserver 3600, (under VMS 5.4) Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) and Motorola MVME135-1 board (MC68020) and Motorola MVME135-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) (bare machines) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machines) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine) Walidated by Registration Bockwell VAX Cluster (comprising VAXserver 3600, MicroVAX (MC68020) (bare machine)			
International Corporation	(#910306W1.11129)		
International Corporation	Rockwell	VAXstation 3100 Model 30	CAPS/AAMP2 (bare machine)
DDC-Based Ada/CAPS Compiler, Version 6.0			5, 1 5, 1 5 am = (5 in 6 mas mis)
Compiler, Version 6.0 #910306W1.11130 SD-Scicon UK Ltd	•	(and or vivio 0.4)	
#910306W1.11130) SD-Scicon UK Ltd			
#901007N1.11042) WAX Cluster (comprising (MC68020) (bare machine) WAX Cluster (comprising (MC68020) and MVME135-1 board (MC68020) and Motorola MVME135-1 board (MC68020) and Motorola MVME147S-1 board (MC68020) and Motorola MVME147S-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) (bare machines) WAX Cluster (comprising (MC68020) (bare machines) WAX Cluster (comprising (MC68020) (bare machines) WAX Cluster (comprising (MC68020) (bare machine) WAX Cluster (comprising (MC68020) (MC68020) (bare machine) WAX Cluster (comprising (MC68020) (MC68020) (bare machine) WAX Cluster (comprising (MC68020) (MC68020) (bare machine) WAX Cluster (comprising (MC68020) (MC68020) (bare machines) WAX Cluster (comprising (MC68020) (bare machines)	•		
#901007N1.11042) Validated by Registration SD-Scicon UK Ltd Waserver 3600, MicroVAX Varsion 5.3) Validated by Registration SD-Scicon UK Ltd Waserver 3600, MicroVAX Varsion 5.3) Validated by Registration SD-Scicon UK Ltd Waserver 3600, MicroVAX Waserver 3600,	#910306991.11130)		
AD Ada MC68020, VAXserver 3600, MicroVAX (MC68020) (bare machine) #901007N1.11042) machines) (under VMS Version 5.3) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 board (MC68020) and Motorola MVME147S-1 board (MC68020) and Motorola MVME147S-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) (bare machines) #901007N1.11042) VAX Cluster (comprising Motorola MVME147S-1 board (MC68030) (bare machines) #901007N1.11042) VAX Cluster (comprising Motorola MVME133XT board (MC68020) (bare machine) WAX Cluster (comprising Motorola MVME133XT board (MC68020) (bare machine) WAX Cluster (comprising Motorola MVME133XT board (MC68020) (bare machine) WAX Cluster (comprising Motorola MVME133XT board (MC68020) (bare machine) WAX Cluster (comprising Motorola MVME135-1 (MC68020) (bare machines) WAX Cluster (comprising Motorola MVME135-1 (MC68030) (bare machines) WAX Cluster (comprising Motorola MVME135-1 (MC68030) (bare machines) WAX Cluster (comprising Motorola MVME135-1 (MC68030) (bare machines)	SD-Scicon LIK Ltd	VAX Cluster (comprising	Motorola MVMF133XT board
#901007N1.11042) #901007N1.11042) #901007N1.11042) #001007N1.11042) #001007N1.11042 #00			
#901007N1.11042) machines) (under VMS Version 5.3) Validated by Registration 6D-Scicon UK Ltd CD Ada MC68020 VAXServer 3600, MicroVAX (MC68020) and Motorola MVME135-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) MVME147S-1 board (MC68030) MVME147S-1 board (MC68030) MVME147S-1 board MVME147S-1 board (MC68030) (MC68030) (MC68030) Motorola MVME133XT board (MC68020)	•		(MOOODZO) (bale machine)
Version 5.3) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising VAXServer 3600, MicroVAX (MC68020) and Motorola (MC68020) and Motorola (MC68020) and Motorola (MC68030) and Motorola MVME147S-1 board (MC68030) MVME147S-1 board (MC68030) (MC68030) Motorola MVME147S-1 board (MC68030) (MC68030) (MC68030) (MC68030) (MC68030) (MC68030) (MC68030) (MC68030) (MC68020) (MC6802		• •	
Avalidated by Registration SD-Scicon UK Ltd VAX Cluster (comprising VAXServer 3600, MicroVAX (MC68020) and Motorola MVME135-1 board (MC68020) and Motorola MVME147S-1 board (MC68030) (MC68020) and Motorola MVME147S-1 board (MC68030) (MC6	#30100/N1.11042j		
AND Cluster (comprising Motorola MVME135-1 board MD MC68020) VAX Cluster (comprising MC68020) VAX Cluster (comprising MC68020) VAX Server 3600, MicroVAX (MC68020) and Motorola MVME147S-1 board (MC68030) BASE Machines) (under VMS 5.3) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME133XT board (MC68020) VAX Server 3600, MicroVAX (MC68020) (bare machine) VAX Cluster (comprising Motorola MVME133XT board (MC68020) VAX Server 3600, MicroVAX (MC68020) (bare machine) Vaxidated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) VAXIdated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) VAX Cluster (comprising Motorola MVME135-1 (MC68030) VAX Cluster (comprising Motorola MVME135-1 (MC6		version 5.3)	
AD Ada MC68020 VAXserver 3600, MicroVAX /ersion 1.2 BASE WASE		VAY Cluster Inamericies	Motorola M/ME135.1 hoard
### Wind Note			
BASE #901007N1.11042) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising VAXserver 3600, MicroVAX Version 1.2A BASE #901007N1.11042) Validated by Registration Working (MC68020) Working (MC6802			,
Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME133XT board (D Ada MC68020, VAXserver 3600, MicroVAX (MC68020) (bare machine) Version 1.2A 2000 (2) & MicroVAX II BASE machines) (under VMS 5.4) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) (D Ada MC68020 VAXserver 3600, MicroVAX MVME147-S-1 (MC68030) MVME147-Version 1.2A MVME147, Version 1.2A machines) (under VMS 5.4) BASE			
Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME133XT board (D Ada MC68020, VAXserver 3600, MicroVAX (MC68020) (bare machine) Version 1.2A 2000 (2) & MicroVAX II BASE machines) (under VMS 5.4) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) (D Ada MC68020) VAXserver 3600, MicroVAX MVME147S-1 (MC68030) MVME147, Version 1.2A MVME147, Version 1.2A machines) (under VMS 5.4) BASE		machines) (under VMS 5.3)	(bare machines)
SD-Scicon UK Ltd VAX Cluster (comprising VAXserver 3600, MicroVAX Version 1.2A BASE Motorola MVME133XT board (MC68020) (bare machine) VAXserver 3600, MicroVAX II machines) (under VMS 5.4) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising VAX Cluster (comprising Motorola MVME135-1 (MC68020) VAXserver 3600, MicroVAX VAXserver 3600, MicroVAX WVME147S-1 (MC68030) MVME147S-1 (MC68030) MVME147, Version 1.2A MVME147, Version 1.2A machines) (under VMS 5.4) BASE	-90100/101.11042)		
VAX Cluster (comprising Motorola MVME135-1 (MC68020) (D Ada MC68020) (MC68020) (MC680			
Version 1.2A BASE BASE Westion 1.2A BASE Machines) (under VMS 5.4) Westion 1.1042) Walidated by Registration SD-Scicon UK Ltd VAX Cluster (comprising VAX Server 3600, MicroVAX WVME135 & WVME147, Version 1.2A Machines) (under VMS 5.4) Machines) (under VMS 5.4)	SD-Scicon UK Ltd		
Version 1.2A BASE machines) (under VMS 5.4) PO01007N1.11042) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising VAXserver 3600, MicroVAX VAXServer 3600, MicroVAX VVME135 & 2000 (2) & MicroVAX II MVME147, Version 1.2A machines) (under VMS 5.4) BASE	CD Ada MC68020,	VAXserver 3600, MicroVAX	(MC68020) (bare machine)
BASE machines) (under VMS 5.4) #901007N1.11042) Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) KD Ada MC68020 VAXserver 3600, MicroVAX & MVME147S-1 (MC68030) MVME135 & 2000 (2) & MicroVAX II boards (bare machines) MVME147, Version 1.2A machines) (under VMS 5.4) BASE	/ersion 1.2A		
Validated by Registration SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) VD Ada MC68020 VAXserver 3600, MicroVAX WVME135 & 2000 (2) & MicroVAX II boards (bare machines) WVME147, Version 1.2A machines) (under VMS 5.4) BASE	BASE	* *	
SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) KD Ada MC68020 VAXserver 3600, MicroVAX & MVME147S-1 (MC68030) kVVME135 & 2000 (2) & MicroVAX II boards (bare machines) kVVME147, Version 1.2A machines) (under VMS 5.4) BASE		,,,	
SD-Scicon UK Ltd VAX Cluster (comprising Motorola MVME135-1 (MC68020) KD Ada MC68020 VAXserver 3600, MicroVAX & MVME147S-1 (MC68030) MVME135 & 2000 (2) & MicroVAX II boards (bare machines) MVME147, Version 1.2A machines) (under VMS 5.4) BASE	Validated by Registration		
XD Ada MC68020 VAXserver 3600, MicroVAX & MVME147S-1 (MC68030) AVME135 & 2000 (2) & MicroVAX II boards (bare machines) AVME147, Version 1.2A machines) (under VMS 5.4) BASE		VAX Cluster (comprising	Motorola MVMF135-1 (MC68020)
MVME135 & 2000 (2) & MicroVAX II boards (bare machines) MVME147, Version 1.2A machines) (under VMS 5.4) BASE		, , , , , , , , , , , , , , , , , , ,	,
//VME147, Version 1.2A machines) (under VMS 5.4) BASE			· · · · · · · · · · · · · · · · · · ·
BASE		• •	Dodius (Daie Hidelilles)
	The state of the s	machines) (under VMS 5.4)	
	BASE #901007N1.11042)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola MVME135-1 board
KD Ada	VAXserver 3600, MicroVAX	(MC68020) (bare machine)
MC68020/EFA,	2000 (2) & MicroVAX II	(
Version 1.2A	machines) (under VMS 5.4)	
BASE	(2.1.2.)	
¥901007N1.11042)		
Validated by Registration		
SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola M68340EVS
(D Ada CPU32	VAXserver 3600, MicroVAX	Evaluation System CPU32
/ersion 1.2	2000 (2), & MicroVAX II	(bare machine)
BASE	machines) (under VMS 5.4)	,
901007N1.11042)	, ,	
Validated by Registration		
SD-Scicon UK Ltd	VAX Cluster (comprising	Motorola M68332EVS
KD Ada	VAXserver 3600, MicroVAX	Evaluation System CPU32
PU32/MC68332	2000 (2), & MicroVAX II	(bare machine)
Version 1.2	machines) (under VMS 5.4)	(
BASE		
£901007N1.11042)		
SD-Scicon UK Ltd	Local Area VAX Cluster	Fairchild F9450 on a SBC-50
(D Ada	(comprising VAXserver 3600,	board (MIL-STD-1750A) (bare
AIL-STD-1750A,	MicroVAX 2000 (2) &	machine)
Version 1.2	MicroVAX II machines)	,
#901214N1.11080)	(under VMS 5.3)	
SD-Scicon UK Ltd	Local Area VAX Cluster	Motorola MC68000 on an
(D Ada MC68000,	(comprising VAXserver 3600,	MVME117-3FP board (bare
/ersion 1.2	MicroVAX 2000 (2) &	machine)
#910314N1.11134)	MicroVAX II machines)	,
,	(under VMS 5.4)	
Validated by Registration		
SD-Scicon UK Ltd	Local Area VAX Cluster	Motorola MC68000 on an
(D Ada	(comprising VAXserver 3600,	MVME117-3FP board (bare
/C68000/EFA, Version 1.2	MicroVAX 2000 (2) &	machine)
BASE	MicroVAX II machines)	,
910314N1.11134)	(under VMS 5.4)	
D-Scicon UK Ltd	Local Area VAX Cluster	Motorola MVME147S-1
D Ada	(comprising VAXserver 3600,	(MC68030) (bare machine)
MC68020/ARTX,	MicroVAX 2000 (2) &	
ersion T1.2	MicroVAX II machines)	
#910911N1.11199)	(under VMS 5.4)	
D-Scicon UK Ltd	Local Area VAX Cluster	Motorola MVME165 (MC68040)
(D Ada MC68040,	(comprising VAXserver 3600,	(bare machine)
Version 1.2	MicroVAX 2000 (2) &	·
#911128N1.11230)	MicroVAX II machines)	
	(under VMS 5.4)	
Siemens Nixdorf	SIEMENS NIXDORF 7.590G	Same as Host
nformations-	(under BS2000 V9.5)	
ysteme AG		
SIEMENS NIXDORF		
S2000 Ada		
Compiler V2.1		
#901119I1.11111)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)	
CERTIFICATE #	MACHINE & (03)	MACHINE & (03)	
Validated by Registration			
Siemens Nixdorf	SIEMENS NIXDORF 7.530,	Same as Host	
nformations-	7.536, 7.541, 7.550, 7.551,		
systeme AG	7.560, 7.561, 7.570, 7.571,		
SIEMENS NIXDORF	7.580 & 7.590; 7.500-C30,		
3S2000 Ada	-C40, -H60, -H90 & -H120		
Compiler V2.1	(under BS2000 V9.5 & V10.0)		
BASE	(======		
/ 901119l1.11111)			
Siemens Nixdorf	Siemens Nixdorf WX200	Same as Host	
nformations-	(SINIX-ODT) (under	Carrio do Fioot	
systeme AG	SINIX-ODT V1.0)		
Ada (SINIX) V4.1	311412-001 11.0)		
#910711W1.11181)			
Validated by Registration			
Siemens Nixdorf	Siemens Nixdorf WX200	Same as Host	
nformations-	(SINIX-ODT) (under		
systeme AG	SINIX-ODT V1.5)		
Ada (SINIX) V4.1	•		
BASE			
#910711W1.11181)			
Siemens Nixdorf	Siemens Nixdorf MX300i	Same as Host	
nformations-	(under SINIX Version V5.41)	Same as most	
	(drider Silvix version vs.41)		
systeme AG			
Ada (SINIX) V4.1			
#920325l1.11249)			
Validated by Registration			
Silicon Graphics	IRIS Indigo, Personal IRIS	Any Host	
/ADS SGI-Irix,	4D, IRIS 4D series of		
SC4-ADA-4.0,	computers (under Irix V4.0)		
/ersion 6.1	, ,		
BASE			
#910920W1.11203)			
Silicon Granhice	los-4D/380 (upder IRIY	Same as Host	
Silicon Graphics	Ins-4D/380 (under IRIX	Jame as Nost	
Computer Systems	Release 4D-3.3)		
ID ADA 3.0 #900703W1.11014)			
#300/031111114)			
Silicon Graphics	Iris-4D/220S (under IRIX	Same as Host	
Computer Systems	Release 4D-3.3)		
ID ADA 3.0			
#900703W1.11015)			
Silicon Graphics	Iris-4D/25 (under IRIX	Same as Host	
Computer Systems	Release 4D-3.3)		
ID ADA 3.0	1.0.00		
#900703W1.11016)			
#900703W1.11016)		_	
#900703W1.11016) Silicon Graphics, Inc.	SGI Indigo (under Irix	Same as Host	
#900703W1.11016) Silicon Graphics, Inc. /ADS SGI-Irix,	SGI Indigo (under Irix V4.0)	Same as Host	
#900703W1.11016) Silicon Graphics, Inc.		Same as Host	
#900703W1.11016) Silicon Graphics, Inc. /ADS SGI-Irix,		Same as Host	
#900703W1.11016) Silicon Graphics, Inc. /ADS SGI-Irix, SC4-ADA-4.0, Version 6.1 #910920W1.11203)	V4.0)	Same as Host	
#900703W1.11016) Silicon Graphics, Inc. /ADS SGI-Irix, SC4-ADA-4.0, Version 6.1 #910920W1.11203) Silicon Graphics,	V4.0) SGI 4D/440 (under Irix		
#900703W1.11016) Silicon Graphics, Inc. /ADS SGI-Irix, SC4-ADA-4.0, Version 6.1 #910920W1.11203) Silicon Graphics, nc.	V4.0)		
#900703W1.11016) Silicon Graphics, Inc. /ADS SGI-Irix, SC4-ADA-4.0, Version 6.1 #910920W1.11203) Silicon Graphics,	V4.0) SGI 4D/440 (under Irix		

SPARCstation 1 (under SunOS SkYstation 8117-P (under seridan Ada, Version 4.1 910711W1.1185) Skystation 8117-P (under seridan Ada, Version 4.1 910711W1.1185) Skystation 8117-P (under skystation 81071W1.1189) Skystation 81071W1.1189 Skystation 81071W1.1189 Skyptation 810Microsystems Sun Ada, 85PARCserver, & SPARCstation 81071W1.1106 Skyptation 820051W1.11006 Skyptation 820051W1.111110 Skyptation 820051W1.1111110 Skyptation 820051W1.1111110 Skyptation 820051W1.1111110 Skyptation 820051W1.111110 Skyptation 820051W1.1111110 Skyptation 820051W1.111110 Skyptation 82	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Skybolt kernel version 2.33	NV Computors Inc	SCI Personal Iria W 4D25	CKVholt 9116 V (under
910711W1.11183) SPARCstation 1 (under SunOS release 4.1) SKYstation 8117-P (under sindian Ada, Wesion 4.1 release 4.1) SKYstation 8117-P (under sindian Ada, Wesion 4.1 release 4.1) SKYstation 8117-P (under sindian Ada, Wesion 4.1 release 4.1) SKYstation 8117-P (under sindian Ada, Wesion 4.1 release 4.1) SKYstation 8117-P (under sindian			
release 4.1) release 4.1) release 4.1) SKYstation kernel version 2.33) SY Computers, Inc. oricidian Ada, Version 4.1 p10711W1.11189) release 4.1) SGI Personal Iris W-4D25 (under Irix System V 3.3) Same as Host (under Irix System V 3.3) release 4.1) Sun Microsystems Sun 4.4 Any Host SPARCserver, & SPARCstation computer families; SPARCserver 600MP Series; & 4000MP-64 (under Sun CS Version 4.2 releases 4.1 & 4.1.2, as supported) alidated by Registration in Microsystems Sun 4. Sun Store Systems Sun Ada, Construction of Microsystems Sun 4. In Microsystems Sun Ada, Sun Microsystems Sun 4. In Microsystems Sun Ada, SpARCserver, SPARCstation, Computer families; SPARCserver, SPARCstation, In Microsystems Sun Ada, Sun Microsystems Sun Ada, Sun Microsystems Sun Ada, Sun Microsystems Sun Ada, SpARCserver, SPARCstation, In Ada, Sun CS, SpARCserver 600MP Series; & 460MP-64 (under Sun CS Version 4.1 4.2 release 4.1.2) Fatan, Inc. Translation of Ada Sun Ada (under VMS SpARCserver 600MP Series; & 460MP-64 (under Sun CS Version 4.1 4.2 release 4.1.2) VAXstation 3100 (under VMS Application Board (bare machine) VAXstation 3100 (under VMS Texas Instruments TMS320C30 Application Board (bare machine) VAXstation 3100 (under VMS SpARCserver Machine) Texas Instruments TMS320C30 Application Board (bare machine) VAXstation 3100 (under VMS SpARCserver Machine) Texas Instruments TMS320C30 Application Board (bare	#910711W1.11183)	(under inx System v 3.3)	SKYDOIT Kernel Version 2.33)
release 4.1) release 4.1) release 4.1) SKYstation kernel version 2.33) SY Computers, Inc. oricidian Ada, Version 4.1 p10711W1.11189) release 4.1) SGI Personal Iris W-4D25 (under Irix System V 3.3) Same as Host (under Irix System V 3.3) release 4.1) Sun Microsystems Sun 4.4 Any Host SPARCserver, & SPARCstation computer families; SPARCserver 600MP Series; & 4000MP-64 (under Sun CS Version 4.2 releases 4.1 & 4.1.2, as supported) alidated by Registration in Microsystems Sun 4. Sun Store Systems Sun Ada, Construction of Microsystems Sun 4. In Microsystems Sun Ada, Sun Microsystems Sun 4. In Microsystems Sun Ada, SpARCserver, SPARCstation, Computer families; SPARCserver, SPARCstation, In Microsystems Sun Ada, Sun Microsystems Sun Ada, Sun Microsystems Sun Ada, Sun Microsystems Sun Ada, SpARCserver, SPARCstation, In Ada, Sun CS, SpARCserver 600MP Series; & 460MP-64 (under Sun CS Version 4.1 4.2 release 4.1.2) Fatan, Inc. Translation of Ada Sun Ada (under VMS SpARCserver 600MP Series; & 460MP-64 (under Sun CS Version 4.1 4.2 release 4.1.2) VAXstation 3100 (under VMS Application Board (bare machine) VAXstation 3100 (under VMS Texas Instruments TMS320C30 Application Board (bare machine) VAXstation 3100 (under VMS SpARCserver Machine) Texas Instruments TMS320C30 Application Board (bare machine) VAXstation 3100 (under VMS SpARCserver Machine) Texas Instruments TMS320C30 Application Board (bare	Y Computers, Inc.	SPARCstation 1 (under SunOS	SKYstation 8117-P (under
SQT Personal Iris W-4D25 Same as Host		·	•
Sun Microsystems Sun Ada,	#910711W1.11185)	,	
Sun Microsystems Sun Ada, in Microsystems Sun Ada, SPARCserver, & ParkCserver, & ParkCserver, & SPARCserver, & SPARCserver & SPARCserver, & SPARCserver, & SPARCserver & SPARCserver, & SPARCserver & SPARCserver, & SPARCserver, & SPARCserver & SPARCserver & SPARCserver & SPARCserver & SPARCserver, & SPA	KY Computers, Inc.	SGI Personal Iris W-4D25	Same as Host
Sun Microsystems Sun Ada, in Microsystems Sun Ada, SPARCserver, & ParkCserver, & ParkCserver, & SPARCserver, & SPARCserver & SPARCserver, & SPARCserver, & SPARCserver & SPARCserver, & SPARCserver & SPARCserver, & SPARCserver, & SPARCserver & SPARCserver & SPARCserver & SPARCserver & SPARCserver, & SPA	•	(under Irix System V 3.3)	
In Microsystems Sun Ada, in Microsystems Sun Microsystems Sun Ada, in Microsystems Sun Ada, SPARCenver, 8 PARCetalion, in Microsystems Sun Ada, SPARCenver, SPARCetation, in Microsystems Sun Ada, SPARCetalion, SPARCeta	#910711W1.11189)	(4.1.2.1 1.1.1 0,01.1.1 1.1.1)	
In Microsystems Sun Ada, incl. (1974-1974). SPARCserver, & SPARCstation computer families; SPARCserver & SPARCserv	Validated by Registration		
In Microsystems Sun Ada, incl. (1974-1974). SPARCserver, & SPARCstation computer families; SPARCserver & SPARCserv	Sun Microsystems	Sun Microsystems Sun-4,	Any Host
anOS, ADE-1.0-4-4-21, resion 1.0 computer families; SPARCserver resion 1.0 600MP Series; & 4600MP-64 (under SunOS Version 4.2 releases 4.1 & 4.1.2, as supported) asidiated by Registration in Microsystems Sun Microsystems Sun-4, SPARCserver, SPARCserver, SPARCserver, SPARCserver, SPARCserver, SPARCserver, SPARCserver form Sun Sun SpARCserver, SPARCserver form Sun	Sun Microsystems Sun Ada,		•
### ASE SunOS Version 4.2 releases 4.1 & 4.1.2, as supported) ### Asign	•	The state of the s	
ASE SunOS Version 4.2 releases 4.1 & 4.1.2, as supported 4			
Alignated by Registration Any Host	· -		
In Microsystems Sun Microsystems Sun-4, Any Host Interpretation Ada, SunOS, SPARCserver, SPARCserve	900510W1.11006)		
In Microsystems Sun Microsystems Sun-4, Any Host Interpretation Ada, SunOS, SPARCserver, SPARCserve	Validated by Registration		
In Microsystems (and Augurous) SPARCserver, SPARCstation, & SPARCserver, SPARcserve		Sun Microsystems Sun 4	Any Host
In Ada, Sun OS, 25-1.1-4-21, Version 1.1 SPARCsergine computer families; 25-1.1-4-21, Version 1.1 SPARCserver 600MP Series; & 4600MP-64 (under Sun OS Version 4.2 release 4.1.2) Intan, Inc. VAXstation 3100 (under VMS Application Board (bare machine) Intan, Inc. VAXstation 3100 (under VMS Application Board (bare machine) Intan, Inc. VAXstation 3100 (under VMS Application Board (bare machine) Intan, Inc. VAXstation 3100 (under VMS Application Board (bare machine) Intan, Inc. VAXstation 3100 (under VMS Application Board (bare machine) Intan, Inc. VAXstation 3100 (under VMS Application Board, Intention of the property of the prop		•	Ally FIUSL
E-1.1-4-4-21, Version 1.1 SPARCserver 600MP Series; & 4800MP-64 (under SunOS Version 4.2 release 4.1.2) See		· · · · · · · · · · · · · · · · · · ·	
ASE 4600MP-64 (under SunOS Version 4.2 release 4.1.2) rdan, Inc. VAXstation 3100 (under VMS 5.2) rdan Ada 5.2) rdan Ada 5.2) rdan Ada 5.2) rdan Ada 4MS/C30, Version 4.0 90121011.11121) rdan Ada VMS/C30, Version 4.1 ASE 30121011.11121) rdan Ada VMS/C30, Version 4.1 rdan Inc. VAXstation 3100 (under VMS Application Board (bare machine) VAXstation 3100 (under VMS Application Board (bare machine) VAXstation 3100 (under VMS Application Board (bare machine) Texas Instruments TMS320C30 Application Board, NAVY SEM-D key Code ADSP (bare machines) VAXstation 3100 (under VMS Texas Instruments TMS320C30 Application Board, NAVY SEM-D key Code ADSP (bare machines) rdan Ada 5.2) rdan Ada Version 4.0.3) rdan Ada Version 4.1 ASE	· ·	•	
### Add	The state of the s	•	
ritan, Inc. ritan Ada Ascala, Version 4.0 90121011.11121) falidated by Registration ritan, Inc. ritan Ada Ascala, Version 4.1 Ascala Ascala, Version 4.1 Ascala, Inc.		,	
Application Board (bare machine) Application Board (bare machine)	900510W1.11006)	4.2 release 4.1.2)	
### MS/C30, Version 4.0 90121011.11121) **alidated by Registration rtan, Inc.	· ·	•	Texas Instruments TMS320C30
901210I1.11121) talidated by Registration rhan, Inc.		5.2)	• •
falidated by Registration intan, Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc.	MS/C30, Version 4.0		machine)
Atan, Inc.	# 901210l1.11121)		
Application Board (bare machine) Texas Instruments TMS320C30 Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board (bare machine) SEM-D Key Code ADSP (bare machines) Application Board (bare machine) Texas Instruments TMS320C30 Application Board, NAVY SEM-D Key Code ADSP (bare machines) SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) EXV80960MC, machine) Application Board (bare machine) SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) EXV80960MC board (bare machine) Same as Host Application Board (bare machine) SEM-D Key Code ADSP (bare machines) Sem-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) EXV80960MC board (bare machine) Same as Host Version 4.0.3) Application Board, NAVY SEM-D Key Code ADSP (bare machines) EXV80960MC board (bare machines) EXV80960MC board (bare machines) Same as Host Version 4.0.3) Application Board, NAVY SEM-D Key Code ADSP (bare machines) EXV80960MC board (bare machines) EXV80960MC board (bare machines) EXV80960MC board (bare machines) EXV80960MC board (bare machines) Same as Host Version 4.0.3) Application Board (bare machine) EXV80960MC board (bare machines)	Validated by Registration		
ASE 201210I1.11121) (alidated by Registration artan, Inc. VAXstation 3100 (under VMS Texas Instruments TMS320C30 Application Board, NAVY SEM-D Key Code ADSP (bare machines) (b) (230, Version 4.1.1 ASE Version 4.1.1) (c) (alidated by Registration artan, Inc. VAXstation 3100 (under VMS Texas Instruments TMS320C30 Application Board, NAVY SEM-D Key Code ADSP (bare machines) (c) (alidated Sun Version 4.1.1) (c) (alidated by Registration artan, Inc. Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3) (alidated by Registration artan, Inc. Sun 3/60 (under Sun OS Version 4.0.3)	artan, Inc.	VAXstation 3100 (under VMS	
Ada 5.2) Ada 5.2) Application Board, NAVY ASEM-D Key Code ADSP (bare machines) Ada Version 4.1.1 ASE OD1210I1.11121) Artan, Inc. Ada Version 4.0.3) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) Ada Version 4.0.3) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) Ada Version 4.0.3) Sun 3/60 (under SunOS Same as Host version 4.0.3) Ada Version 4.0.3) Adidated by Registration Ada Version 4.0.3) Ada Version 4.0.3) Ada Version 4.0.3) Ase Ada Version 4.0.3) Ase Ada Version 4.0.3)	artan Ada VMS/C30, Version 4.1	5.2)	Application Board (bare
falidated by Registration rtan, Inc. rtan, Inc. Ada 5.2) MS/C30, Version 4.1.1 ASE 20121011.11121) ASE ASE 20121011.11121) ASE ASE ASE Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) EXV80960MC board (bare machine) ASE ASE ASE ASE APPLICATION TOWNS APPLICA	BASE		machine)
Artan, Inc. Artan, Inc. Artan, Inc. Artan Ada Ada 5.2) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) EXV80960MC board (bare machine) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) EXV80960MC board (bare machine) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machines) Same as Host Intel ICE960/25 on an Intel EXV80960MC board (bare machines) Application Board, NAVY SEM-D Key Code ADSP (bare machines) Intel ICE960/25 on an Intel EXV80960MC board (bare machines) Same as Host Intel ICE960/25 on an Inte	901210 1.11121)		
### Ada 5.2) Application Board, NAVY SEM-D Key Code ADSP (bare machines) #### ASE Application Board, NAVY SEM-D Key Code ADSP (bare machines) #### ADDI21011.11121) ##### Ada Version 4.0.3) Intel ICE960/25 on an Intel EXV80960MC board (bare machine) ##### Ada Version 4.0.3) EXV80960MC board (bare machine) ####################################	Validated by Registration		
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un/Sun, Version 4.1 ASE	artan Ada	· ·	
ASE	Sun/Sun, Version 4.1	·	
	BASE		
	901211 1.11118)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Validated by Registration		
Tartan, Inc.	Sun 3/60 (under SunOS	Same as Host
Fartan Ada	Version 4.0.3)	
Sun/Sun, Version 4.2		
BASE		
¥901211l1.11118)		
fartan, Inc.	VAXstation 3100 (under VMS	Intel ICE960/25 on an intel
Fartan Ada	5.2)	EXV80960MC board (bare
/MS/960MC, Version 4.0		machine)
(#901212I1.11120)		
Validated by Registration		
	1/4Vatation 0400 (conden) #40	Intel EX (00000MC board 0
Tartan, Inc.	VAXstation 3100 (under VMS	Intel EXV80960MC board, &
Tartan Ada	5.2)	Intel ICE960/25 on an Intel
/MS/960MC,		EXV80960MC board (bare
/ersion 4.1		machines)
BASE		
\$ 901212l1.11120)		
fartan, Inc.	Sup 3/50 (under Sup OS	Texas Instruments TMS320C30
· · · · · · · · · · · · · · · · · · ·	Sun 3/50 (under SunOS	
Tartan Ada	Version 4.0.3)	Application Board (bare
Sun/C30 Version 4.0		machine)
#901212 1.11123)		
Validated by Registration		
Tartan, Inc.	Sun 3/50 (under SunOS	Texas Instruments TMS320C30
•		
Tartan Ada	Version 4.0.3)	Application Board (bare
Sun/C30, Version		machine)
1.1.1		
BASE		
¥901212l1.11123)		
fartan, Inc.	VAYetation 2200 (under VA49	Texas Instruments STL VHSIC
ŕ	VAXstation 3200 (under VMS	
artan Ada	5.2)	1750A (bare machine)
/MS/1750A,		
/ersion 4.0		
#901213 1.11119)		
Validated by Registration		
Tartan, Inc.	VAXstation 3200 (under VMS	Texas Instruments STL VHSIC
Tartan Ada	5.2)	1750A (bare machine)
	٠.٤)	moon (base machine)
/MS/1750A, Version 4.1		
BASE		
¥901213l1.11119)		
artan, Inc.	VAXstation 3100 (under VMS	Motorola MVME134 (MC68020)
Cartan Ada	5.2)	(bare machine)
/MS/680X0, Version 4.1	J.L/	(200.2
•		
#910613l1.11171)		
Validated by Registration		
Tartan, Inc.	VAXstation 3100 (under VMS	Motorola MVME134 (MC68020),
artan Ada	5.2)	MVME143 (MC68030), & MVME165
/MS/680X0, Version 4.1.1	/	(MC68040) (bare machines)
BASE		(
\$910613l1.11171)		
ŕ		
artan, Inc.	SPARCstation ELC (under	Texas Instruments TMS320C30
artan Ada SPARC	SunOS version 4.1.1)	Application Board (bare
	•	
C30, Version 4.2		machine)

vitan Ada SPARC SunOS version 4.1.1) (bare machine) 0000, Version 4.2 92031311.11246) vitan, Inc. SPARCstation ELC (under SunOS version 4.1.1) Intel EXV80960MC board (bare machine) vitan, Inc. SPARCStation ELC (under Sun UNIX (electric Sun-3 Ada Development System) 4.2 Release 4.0.3) ieSoft (electra Sun-3 Ada Development stem, Version 4.01 500506251.11012) Same as Host velopment System, Version 4.1 (for SPARCSystems Sun-4, Velopment System (version 1.1 for SPARCSystems) 5001128W1.11090) alidated by Registration (electra Sparce) Sun Microsystems Sun-4, SPARCSystems, Version 4.1 for VAX/VMS to Select Ada Host Development System (velopment System (velopment System) SPARCSystems Sparce Systems, Version 4.1 for VAX/VMS to 68K 101128W1.11090) Solbourne Series 5 & 5E: and S4000 (under OS/MP 4.1) Any Host Any Hos	VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
untain Ada SPARC SunOS version 4.1.1) board (MIL-STD-1750A) (bare machine) 960313I.11245) SPARCstation ELC (under tran Ada SPARC (DXO, Version 4.2.2) Motorola MVME134 (MC68020) (bare machine) 920313I.11249) Intel EXV80960MC board (bare machine) Intel EXV80960MC board (bare machine) 1860ft SPARCstation ELC (under sun UNIX (Fartan Inc	SPARCetation ELC (under	Egirahild EQ4E0 on on SBC E0
Stanton 12 Stan	·		
SPARCstation ELC (under sun OS version 4.1.1) Motorola MVME134 (MC68020) (bare machine) Motorola MVME134 (MC68020) (bare machine) SPARCstation ELC (under sun OS version 4.1.1) Motorola MVME134 (MC68020) (bare machine) Intan Ada SPARC (2000) (version 4.2 (and SPARC) (a		SullOS version 4.1.1)	, , , , , , , , , , , , , , , , , , , ,
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Incompanies	(#920313 1.11247)		
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svelopment System for & SPARCengine computer families (under SunOS 4.2, release 4.1) ASE release 4.1) alidated by Registration leSoft SPARCSystems, Version 4.1 ASE soll-128W1.11090) Any Host Any Host leGen2 Ada Host Development System (SPARCSystems, Version 4.1 ASE soll-128W1.11090) Asse soll-128W1.11090) Any Host Motorola MVME133A-20 (under VAX/VMS Version 5.2) Any Host Motorola MVME133A-20 (MC68020) (bare machine) with soll-128W1.11124) Alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series (MC6802D) (bare machine) with soll-128W1.11124) Alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series (MC6802D) (M	TeleGen2 Ada Host		
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alidated by Registration leSoft Solbourne Series 5 & 5E; Any Host leGen2 Ada Host Development System and S4000 (under OS/MP 4.1) rSPARCSystems, Version 4.1 ASE 201128W1.11090) leSoft MicroVAX 3800 (under Wotorola MVME133A-20 leGen2 Ada Cross Development System, rsion 4.1, for VAX/VMS to 68K 910121I1.11124) alidated by Registration leSoft DEC VAX-11, VAXserver, Wotorola board series leGen2 Ada VAXstation, MicroVAX, VAX MVME133*, MVME135*, MVME136 ssp Development 6000, VAX 8000 & VAX 9000 (MC68020); MVME141* & stem for VAX to Series of computers (under K, Version 4.1 VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 ASE Joil 11.11124) alidated by Registration leSoft DEC VAX-11, VAXserver, Wotorola board series leSoft S.3 & 5.4, as supported) DEC VAX-11, VAXserver, Motorola board series leSoft RIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using leSoft LTRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using leSoft LTRIAD VAXserver, VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using leSoft LTRIAD VAXserver, VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using leSoft LTRIAD VAXserver, VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using leSoft LTRIAD VAXserver, VAXstation, MicroVAX, VAX		•	
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JeSoft leGen2 Ada Host Development System r SPARCSystems, Version 4.1 ASE JOI128W1.11090) JeSoft MicroVAX 3800 (under VAX/VMS Version 5.2) JeSoft MicroVAX 3800 (under VAX/VMS Version 5.2) JeSoft MicroVAX 3800 (under Motorola MVME133A-20 (MC68020) (bare machine) JeSoft MicroVAX 3800 (under Motorola MVME133A-20 (MC68020) (bare machine) JeSoft MicroVAX, VMS Version 5.2) JeSoft DEC VAX-11, VAXserver, Motorola board series JeGen2 Ada VAXstation, MicroVAX, VAX MVME133*, MVME135*,	7901120111111111111111111111111111111111		
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SPARCSystems, Version 4.1 ASE 201128W1.11090) IleSoft	TeleGen2 Ada Host Development System	· · · · · · · · · · · · · · · · · · ·	
ASE 201128W1.11090) IleSoft MicroVAX 3800 (under Motorola MVME133A-20 (MC68020) (bare machine) IleGen2 Ada Cross Development System, vax/VMS Version 5.2) (MC68020) (bare machine) Ision 4.1, for VAX/VMS to 68K 910121I1.11124) Indidated by Registration IleSoft DEC VAX-11, VAXserver, Motorola board series IleGen2 Ada VAXstation, MicroVAX, VAX MVME133*, MVME135*, MVME130 (MC68020); MVME141* & MVME133*, MVME130 (MC68020); MVME141* & MVME141* & MVME147* (MC68030); and K, Version 4.1 VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 (MC68030); ASE Solution (MC68020) (MC68020); MVME141* & MVME11111124) Indidated by Registration IleSoft DEC VAX-11, VAXserver, Motorola board series IleSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using the motor of the mot	or SPARCSystems, Version 4.1	,,	
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leGen2 Ada Cross Development System, vax/vms version 5.2) (MC68020) (bare machine)	#901128W1.11090)		
leGen2 Ada Cross Development System, vax/vms version 5.2) (MC68020) (bare machine)	Tala Cat		Maria 1 MARIE 1001 00
alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series leGen2 Ada VAXstation, MicroVAX, VAX MVME133*, MVME135*, MVME13 ss Development 6000, VAX 8000 & VAX 9000 (MC68020); MVME141* & stem for VAX to Series of computers (under MVME147* (MC68030); and K, Version 4.1 VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 ASE 5.3 & 5.4, as supported) & CPU-37 (bare machines) alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series leSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) VMS Versions 5.0, 5.1, 5.2,	TeleSoft	•	
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alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series leGen2 Ada VAXstation, MicroVAX, VAX MVME133*, MVME135*, MVME13 oss Development 6000, VAX 8000 & VAX 9000 (MC68020); MVME141* & stem for VAX to Series of computers (under MVME147* (MC68030); and K, Version 4.1 VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 ASE 5.3 & 5.4, as supported) & CPU-37 (bare machines) alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series leSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) vMS Versions 5.0, 5.1, 5.2,	· ·		
DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME133*, MVME135*, MVME13 December of VAX to Series of computers (under MVME147* (MC68030); and WX Version 4.1 ASE State of VAX to VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 ASE 5.3 & 5.4, as supported) Alidated by Registration BeSoft DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for G000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under VMS Versions 5.0, 5.1, 5.2, TeleAda-Exec) DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using TeleAda-Exec) TeleAda-Exec)	#91012111.11124)		
DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME133*, MVME135*, MVME13 December of VAX to Series of computers (under MVME147* (MC68030); and WX Version 4.1 ASE State of VAX to VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 ASE 5.3 & 5.4, as supported) Alidated by Registration BeSoft DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for G000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under VMS Versions 5.0, 5.1, 5.2, TeleAda-Exec) DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using TeleAda-Exec) TeleAda-Exec)	Validated by Registration		
Negen2 Ada	TeleSoft	DEC VAX-11, VAXserver	Motorola board series
oss Development 6000, VAX 8000 & VAX 9000 (MC68020); MVME141* & Series of computers (under MVME147* (MC68030); and VMS Version 4.1 VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 ASE 5.3 & 5.4, as supported) alidated by Registration IeSoft DEC VAX-11, VAXserver, Motorola board series VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare machines, using X/VMS to 68K, Series of computers (under VMS Versions 5.0, 5.1, 5.2, VMS	TeleGen2 Ada		
Series of computers (under MVME147* (MC68030); and K, Version 4.1 VMS Versions 5.0, 5.1, 5.2, Force CPU-30, CPU-31, CPU-32 & CPU-37 (bare machines)			· · · · · · · · · · · · · · · · · · ·
K, Version 4.1 VMS Versions 5.0, 5.1, 5.2, ASE 5.3 & 5.4, as supported) alidated by Registration BESOft DEC VAX-11, VAXserver, BESOft TRIAD VAXstation, MicroVAX, VAX Stem for Motorola board series MVME147* (MC68030) (bare stem for MVME147* (MC68030) MVMS to 68K, Series of computers (under VMS Versions 5.0, 5.1, 5.2,			•
ASE 5.3 & 5.4, as supported) & CPU-37 (bare machines) alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series leSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) vision 4.1 VMS Versions 5.0, 5.1, 5.2,	•		•
alidated by Registration leSoft DEC VAX-11, VAXserver, Motorola board series leSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) vision 4.1 VMS Versions 5.0, 5.1, 5.2,			
alidated by Registration IeSoft DEC VAX-11, VAXserver, Motorola board series IeSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) vision 4.1 VMS Versions 5.0, 5.1, 5.2,		5.3 & 5.4, as supported)	& CPU-37 (bare machines)
IeSoftDEC VAX-11, VAXserver, VAXstation, MicroVAX, VAXMotorola board seriesIeSoft TRIADVAXstation, MicroVAX, VAXMVME147* (MC68030) (bareInstem for6000, VAX 8000 & VAX 9000machines, usingImage: Max of the computer of the co	f91U121I1.11124)		
leSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) vrsion 4.1 VMS Versions 5.0, 5.1, 5.2,	Validated by Registration		
leSoft TRIAD VAXstation, MicroVAX, VAX MVME147* (MC68030) (bare stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) VMS Versions 5.0, 5.1, 5.2,	TeleSoft	DEC VAX-11, VAXserver,	Motorola board series
stem for 6000, VAX 8000 & VAX 9000 machines, using X/VMS to 68K, Series of computers (under TeleAda-Exec) vms Version 4.1 VMS Versions 5.0, 5.1, 5.2,	TeleSoft TRIAD		MVME147* (MC68030) (bare
X/VMS to 68K, Series of computers (under TeleAda-Exec) vrsion 4.1 VMS Versions 5.0, 5.1, 5.2,	System for	· · · · · · · · · · · · · · · · · · ·	•
rsion 4.1 VMS Versions 5.0, 5.1, 5.2,	VAX/VMS to 68K,	The state of the s	
	Version 4.1	·	
	BASE		
	\$910121I1.11124)	o.o a o.a, as supported)	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Marie II. B. C. C.		
*Validated by Registration	DEO MANA A MANA	B4-1
TeleSoft	DEC VAX-11, VAXserver,	Motorola MVME165* & MVME167*
TeleGen2 Ada	VAXstation, MicroVAX, VAX	(68040) board families (bare
Cross Development	6000, VAX 8000 & VAX 9000	machines)
System for	Series of computers (as	
VAX/VMS to 68K, Version 4.1	supported) (under VMS	
BASE	Versions 5.0, 5.1, 5.2, 5.3	
#910121l1.11124)	& 5.4)	
TeleSoft	MicroVAV 2000 (under	Integrated Davisa Technology
	MicroVAX 3800 (under	Integrated Device Technology
TeleGen2 Ada Cross Development	VAX/VMS Version 5.2)	IDT7RS301 System
System, Version 4.1,		(R3000/R3010) (bare machine)
or VAX/VMS to MIPS		
#910123l1.11125)		
TeleSoft	Sun-3/480 (under Sun UNIX,	Motorola MVME135-1 (MC68020)
TeleGen2 Ada Cross	Release 4.1)	(bare machine)
	1 100000 4.1)	(Daie Hachille)
Development System, Version		
4.1, for SUN-3 to 68K		
#910125l1.11126)		
TeleSoft	VAX 6210 (under VMS 5.3)	Intel iSBC 386-120
TeleGen2 Ada	,	(80386/387) (bare machine,
Cross Development System, Version		using TeleAda-EXEC 1.0)
3.1 for VAX/VMS to 386		3011g :010/ 144 2 420 110/
#910325I1.11139)		
#31002311.11103)		
Validated by Registration		
TeleSoft TeleSoft	VAX 4000-300 (under VMS	Intel iSBC 486/133SE board
TeleGen2 Ada	5.4-3)	(bare machine, using
Cross Development	,	TeleAda-EXEC 1.0)
System, Version 3.1		,
(BASE		
#910325l1.11139)		
TeleSoft TeleSoft	Sun-4/60 (under SunOS 4.1)	Motorola MVME147 (68030)
TeleGen2 Ada Cross Development		(bare machine, using
System, Version 3.1 for SPARC to 68K		TeleAda-EXEC 1.0)
#910325 1.11140)		
Welidated by Benintentian		
Validated by Registration FeleSoft	Sun Microsystems Sun-4,	Motorola MVME133*, MVME135*,
TeleGen2 Ada	SPARCserver & SPARCstation	MVME136* (68020); MVME141* &
Cross Development		MVME138* (68030); and
•	computer families (under	
System for SPARC	SunOS 4.1)	MVME165* & MVME167* (68040)
o 68K, Version 4.1		board families (bare
BASE		machines, optionally using
#910325l1.111 4 0)		TeleAda_Exec 2.0)
FeleSoft	Apple Macintosh Ilfx (under	Same as Host
TeleGen2 Ada Host	A/UX 2.0)	
Development System, Version	. y O/. E.O/	
8.1, for MacII Systems		
#910721l1.11194)		
·		
Validated by Registration		
eleSoft	Apple Macintosh II family,	Any Host
TeleGen2 Ada Host	& SE/30 (under A/UX Release	
Development System for MacII	2.0)	
Systems, Version 4.1	2.0,	
BASE		
#910721 1.11194)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
The state of the s		
eleSoft	MicroVAX 3800 (under VMS	MIL-STD-1750A ECSPO ITS RAID
eleGen2 Ada	Version 5.4)	Simulator, Version 6.0 (bare
Development System for VAX		machine simulation,
o 1750A, Version 3.25		executing on the Host)
#911028 1.11229)		oncounting on the con-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
eleSoft	MicroVAX 3800 (under VMS	Intel EXV 960 MC-MIL (i960
eleGen2 Ada Compilation	Version 5.4)	XA) (bare machine, using
System for VAX to		Hughes O.S. Ada RTS
30960, Version 4.1		interface)
#911213 1.11235)		
exas Instruments	MIPS M/2000 (under RISC/os	TI DP32 R3000 Processor
MPS-Ada, Version 3.0	4.02)	(bare machine, using Ti DP32
#901030W1.11052)	7.02)	RTE Version 1.0)
#30 1000W 1.1 1002j		TIE VOISION 1.0)
exas Instruments	MicroVAX 3400 (under VMS	Ti DP32 R3000 Processor (bare
I Ada, Version 1.0	5.3-1)	machine, using TI Executive and
#910403W1.11135)	·	Runtime Services (EARS) Version 1.0)
LD Systems, Ltd.	Sun-4/75 (under SunOS,	Rockwell International
LD Systems, Etc. LD Sun-4/MIL-STD-175	Version 4.1.1)	RI-1750AB Brassboard
A Ada Compiler	VOISION 4.1.1)	
· ·		Development System (bare
System, Version 2.9.0		machine, using TLDrtx Real
#920319W1.11237)		Time Executive, Version 1.0.0)
LD Systems, Ltd.	Data General MV/32 20000-2	Same as Host
LD MV/MV Ada	(under AOS/VS II, Version	
Compiler System,	2.03)	
/ersion 2.9.0	,	
#920319W1.11238)		
II D. Cristomo I Ad	Con 4/75 for dea Con OC	Lieu es con II Dec mages
ILD Systems, Ltd.	Sun-4/75 (under SunOS,	Honeywell Program
LD	Version 4.1.1)	Development Unit (PDU) with
Sun-4/MIL-STD-175		Honeywell Generic VHSIC
A Ada Compiler		Spaceborne Computer (GVSC)
System, Version		MIL-STD-1750A (bare machine,
2.9.0		using TLDrtx Real Time
#920319W1.11239)		Executive, Version 1.0.0)
LD Systems, Ltd.	Sun-4/75 (under SunOS,	TLD MIL-STD-1750A Multiple
LD	Version 4.1.1)	Processor Simulator (bare
Sun-4/MIL-STD-175	,	machine simulation, using
A Ada Compiler		TLDrtx Real Time Executive,
System, Version		Version 1.0.0, and executing
2.9.0		on the Host)
#920319W1.11240)		on the rosty
LD Systems, Ltd.	IBM RISC System 6000, Model	TLDmps MIL-STD-1750A
LD	530 (under AIX, Version	Multiple Processor Simulator
RISC6000/MIL-STD-	3.1)	(bare machine simulation,
750A Ada		using TLDrtx Real Time
compiler System,		Executive, Version 1.0.0,
ersion 2.9.0		and executing on the Host)
#920319W1.11241)		
LD Systems, Ltd.	MicroVAX 3500 (under VMS,	TLD MIL-STD-1750A Multiple
LD Systems, Ltd. LD	Version 5.1)	Processor Simulator (bare
	version 5.1)	·
AX/MIL-STD-1750A		machine simulation, using TLDrtx Real Time Executive,
da Compiler		
system, Version		Version 1.0.0, and executing
.9.0		on the Host)
#920319W1.11242)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
LD Systems, Ltd.	HP 9000/350 (under HP-UX,	TLDmps MIL-STD-1750A
îLD HP	Version 7.0)	Multiple Processor Simulator
000/MIL-STD-1750		(bare machine simulation,
Ada Compiler		using TLDrtx Real Time
ystem, Version		Executive, Version 1.0.0,
.9.0		and executing on the Host)
#920319W1.11243)		
I.S. Air Force	VAXstation 3100 (under VMS	Air Force RAID MIL-STD-1750A
FCAS 1750A Ada	Version 5.3)	simulator (bare machine
Compiler, Version 1.0		simulation, executing on the
¥910425W1.11142)		Host)
Validated by Registration		
.S. Air Force	DEC VAXstation 3100 (under	Air Force RAID MIL-STD-1750A
FCAS 1750A Ada	VMS Version 5.4)	simulator (bare machine
Compiler, Version 1.1		simulation, executing on the
BASE		Host)
f910425W1.11142)		. 1001,
J.S. Air Force	VAXstation 3100 (under VMS	Air Force RAID MIL-STD-1750A
· · · ·		-
AFCAS 1750A/XMEM	Version 5.3)	simulator (bare machine
da Compiler,		simulation, executing on the
Version 1.0		Host)
#910425W1.11143)		
Validated by Registration		
J.S. Air Force	DEC VAXstation 3100 (under	Air Force RAID MIL-STD-1750A
FCAS 1750A/XMEM	VMS Version 5.4)	simulator (bare machine
da Compiler,		simulation, executing on the
ersion 1.1		Host)
BASE		
¥910425W1.11143)		
J.S. NAVY	VAX 8600 (under VMS Version	Same as Host
daVAX, Version	5.3)	
.0 (/OPTIMIZE)		
#910517\$1.11162)		
J.S. NAVY	VAX 8600 (under VMS Version	Same as Host
daVAX, Version	5.3)	
5.0 (/NO OPTIMIZE)	J.J,	
#910517S1.11163)		
J.S. NAVY	VAX-11/785 (under VMS	Same as Host
daVAX, Version	VAX-11/765 (under VMS Version 5.3)	Carrie as Flost
i.0 (/OPTIMIZE)	version 3.3)	
,		
#910517S1.11164)		
J.S. NAVY	VAX-11/785 (under VMS	Same as Host
daVAX, Version	Version 5.3)	
.0 (/NO_OPTIMIZE)		
#910517S1.11165)		
I.S. NAVY	VAX 8550 (under VMS Version	AN/UYK-43 (single cpu) (bare
da/L, Version	5.3)	machine)
.0 (/OPTIMIZE)	5.5,	,
#910626\$1.11172)		
.S. NAVY	VAX 8550 (under VMS Version	AN/UYK-43 (EMR) (bare
da/L, Version	5.3)	machine)
.0 (/OPTIMIZE)	•	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
J.S. NAVY	VAX 8550 (under VMS Version	AN/UYK-44 (EMR) (bare
Ada/M, Version	5.3)	machine)
i.0 (/OPTIMIZE)		
#910626S1.11174)		
.S. NAVY	VAX 8550 (under VMS Version	AN/AYK-14 (bare machine)
da/M, Version	5.3)	
I.O (/OPTIMIZE)		
#910626S1.11175)		
J.S. NAVY	VAX-11/785 (under VMS	AN/UYK-43 (single cpu) (bare
Ada/L, Version	Version 5.3)	machine)
4.0 (/OPTIMIZE)	,	•
#910626\$1.11176)		
J.S. NAVY	VAX-11/785 (under VMS	AN/UYK-43 (EMR) (bare
Ada/L, Version	Version 5.3)	machine)
I.O (/OPTIMIZE)	10101011 0.0)	maximo)
#910626\$1.11177)		
I C. NAVOV	VAV 44 (705 (up do 1010)	ANT/IN/IZ AA /FRAD\ (I
J.S. NAVY	VAX-11/785 (under VMS	AN/UYK-44 (EMR) (bare
Ada/M, Version	Version 5.3)	machine)
I.0 (/OPTIMIZE) #910626\$1.11178)		
		AA1/AA/I/ 4.4 /F
J.S. NAVY	VAX-11/785 (under VMS	AN/AYK-14 (bare machine)
da/M, Version	Version 5.3)	
I.O (/OPTIMIZE)		
#910626S1.11179)		
INISYS	UNISYS 2200/600 (under	Same as Host
Corporation	OS1100, Version 43R2)	
JCS Ada, Version 1R1		
#910510S1.11161)		
Validated by Registration		
JNISYS	UNISYS 1100/90, 2200/100,	Any Host
Corporation	/200, /400, /600, & /900	
JCS Ada, Version 1R1	(under OS 1100, Versions	
BASE	43R2 & 43R3, as supported)	
¥910510S1.11161)		
/erdix	DECstation 3100 (under	Same as Host
Corporation	ULTRIX 3.1)	
/Ada-110-6161, Version 6.0.2	,	
#900228W1.11001)		
Validated by Registration		
Validated by Registration /erdix	DECstation 2100, 5000;	Any Host
Corporation	DECsystem 5400, 5810, 5820,	741y 1.00t
/Ada-110-6161, Version 6.0.2	5830, 5840 (under ULTRIX	
BASE	3.1)	
¥900228W1.11001)	J,	
Validated by Registration		
validated by Registration /erdix	DECstation 2100, 3100, 5000	Any Host
Corporation	& 5200; and DECsystem 3100,	raty 1 lest
/ADS DEC-RISC,	5000, 5100, 5200, 5400,	
Jltrix 4.0,	5500, 5810, 5820, 5830 &	
/Ada-110-6161,	5840 (under ULTRIX 4.0)	
/ersion 6.0	00 10 (21.00) OE11 10 (1.0)	
BASE		

HOST MACHINE & (OS)	TARGET MACHINE & (OS)
750	
	Any Host
5000, 5100, 5200, 5400,	
5840 (under ULTRIX 4.1)	
DECstation 2100, 3100, 5000	Any Host
	71.y 7.000
Seat (under Urthx 4.2)	
VAXsystem 3100 (under	Same as Host
ULTRIX 3.1)	
DEC VAX-11, MicroVAX,	Any Host
VAXserver, VAXstation, VAX	
solito (aliasi ocilito ilo)	
DEC VAV 44 VAVoories	Any Host
	Ally Host
•	
ULTRIX 4.2)	
`	
Sun 3/280 (under SunOS 4.0)	Same as Host
•	
0 0/50 /00 /00 /450	Any Heat moshine fundas como
	Any Host machine (under same
	OS version)
•	
4.1)	
IBM PS/2 Model 80 (under	Intel iSBC 386/12 (bare
·	machine)
,	
	DECstation 2100, 3100, 5000 & 5200; and DECsystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840 (under ULTRIX 4.1) DECstation 2100, 3100, 5000 & 5200; DECsystem 3100, 5000, 5100, 5200, 5400, 5500, 5810, 5820, 5830 & 5840 (under Ultrix 4.2) VAXsystem 3100 (under ULTRIX 3.1) DEC VAX-11, MicroVAX, VAXserver, VAXstation, VAX 6000, VAX 8000 & VAX 9000 series (under ULTRIX 4.0) DEC VAX-11, VAXserver, VAXstation, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under ULTRIX 4.2) Sun 3/280 (under SunOS 4.0) Sun-3/50, /60, /80, /150, /160, /260, /280, /470 & /480 (under SunOS 4.0 & /480

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix	IBM PS/2 Model 80 (under	Motorola MVME133A-20
Corporation	AIX 1.1)	(MC68020) (bare machine)
VADS IBM PS/2 AIX = > 68K,	,	(,
VAda-110-35125, Version 6.0		
(#900510W1.11005)		
Verdix	Sun 4/280 (under SunOS 4.0)	Same as Host
Corporation		
VADS Sun-4 SunOS,		
VAda-110-4040, Version 6.0 (#900510W1.11006)		
*Validated by Registration		
Verdix	Sun-4/20, /65, /110, /150 & /260;	Any Host
Corporation	SPARCserver 310, 330, 370, 390,	
VAda-110-4040,	470 & 490; SPARCstation SLC, 1,	
Version 6.0	1+, 2, 310, 330 & 370; and	
(BASE	SPARCengine 1 VME (under	
#900510W1.11006)	SunOS 4.1)	
Verdix	Sun 3/280 (under SunOS 4.0)	Motorola MVME147 (MC68030)
Corporation		(bare machine)
VADS Sun3 SunOS => 68K,		
VAda-110-13125, Version 6.0 (#900510W1.11007)		
*Validated by Registration		
Verdix	Sun-3/50, /60, /80, /150,	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation	/160, /260, /280, /470 &	Force CPU 21, CPU 29, CPU 30, CPU 31, CPU
VADS Sun3 SunOS	/480 (under SunOS 4.0 &	32, CPU 37 & Golden Triangle Firepower;
= > 68K,	4.1)	Heurikon HK68/V30 Series, V2E Series &
VAda-110-13125,		V2F Series; Integrated Solutions VME68K20,
Version 6.0		VME68K30, VME68225 & Liberator SBC; Matrix
(BASE		MS-CPU220 & MS-CPU320; Mizar MZ7120,
#900510W1.11007)		MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130
		Sun Microsystems 3E Board Set; Motorola
		MVME147 Series & MVME141 (MC68030),
		MVME133 Series, MVME134, MVME135 &
		MVME136 (MC68020), MVME-110, MVME-165
		& MVME-167; Tadpole TP32V & TP33M (bare
		machines)
Verdix	IBM RISC System/6000 Model	Same as Host
Corporation	530 (under AIX 3.1)	
VADS IBM RISC System/6000, AIX 3.1,		
VAda-110-7171, Version 6.0 (#900726W1.11017)		
*Validated by Registration		
Verdix	IBM RISC System/6000 Models	Any Host
Corporation	320, 520, 540, 730 & 930	7.119 11000
VADS IBM RISC System/6000, AIX 3.1,	(under AIX 3.1)	
	(GILGEL VIV 2.1)	
VAda-110-7171, Version 6.0 (BASE		
#900726W1.11017)		
*Validated by Registration		
Verdix	IBM RISC System/6000 Models	Any Host
Corporation	220, 320, 320H, 340, 350,	,,
•	520, 520H, 530H, 540, 550, 560,	
VADS IBM RISC System/6000, AIX 3.1,		
VAda-110-7171, Version 6.0	730, 930, & 950 (under AIX 3.2)	
(BASE		
#900726W1.11017)		

VENDOR, COMPILER &	HOST	TARGET
CERTIFICATE #	MACHINE & (OS)	MACHINE & (OS)
/erdix	HP 9000/350 (under HP-UX	Same as Host
Corporation	7.0)	•
/ADS HP 9000/300, HP-UX 7.0,	,	
/Ada-110-1515, Version 6.0		
(#900726W1.11018)		
(#300/2011.11010)		
*Validated by Registration		
Verdix	HP 9000 Series 300 Models	Any Host
Corporation	310, 320, 330, 340, 350,	
VADS HP 9000/300, HP-UX 7.0,	360 & 370 (under HP-UX 7.0)	
VAda-110-1515, Version 6.0		
(BASE		
#900726W1.11018)		
4. 4.	D: 50 (000 / 1 100)	
Verdix	Prime EXL/320 (under UNIX	Same as Host
Corporation	System V/386 3.2)	
/ADS Prime EXL/320, UNIX		
System V/386 3.2,		
VAda-110-3232, Version 6.0		
(#900726W1.11019)		
Verdix	MicroVAX 3100 (under	Same as Host
Corporation	VAX/VMS V5.2)	Carrie as Floor
•	VAX/ VIVIG V3.2)	
VADS VAX/VMS 5.2,		
/Ada-110-0303, Version 6.0 (#900726W1.11020)		
•		
Validated by Registration		
/erdix	DEC VAX-11, VAXserver,	Any Host
Corporation	VAXstation, MicroVAX, VAX	
VADS VAX/VMS 5.3,	6000, VAX 8000 & VAX 9000 Series	
VAda-110-0303, Version 6.0	of computers (under VMS 5.3)	
(BASE	/	
#900726W1.11020)		
An arthur	16°	Makasala
Verdix	MicroVAX 3100 (under	Motorola MVME147 (MC68030)
Corporation	VAX/VMS V5.2)	(bare machine)
VADS VAX/VMS = > 68k, VMS 5.2,		
VAda-110-03125, Version 6.0		
(#900726W1.11021)		
Validated by Registration		
/erdix	DEC VAX-11, VAXserver,	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation	VAXstation, MicroVAX, VAX	Force CPU 21, CPU 29, CPU 30, CPU 31,
VADS VAX/VMS = >	6000, VAX 8000 & VAX 9000	CPU 32, CPU 37 & Golden Triangle Firepow
•	·	Heurikon HK68/V30 Series, V2E Series & V2
68K, VMS 5.2,	Series of computers (under	
/Ada-110-03125,	VMS 5.2)	Series; Integrated Solutions VME68K20,
Version 6.0		VME68K30, VME68225 & Liberator SBC; Ma
BASE		MS-CPU220 & MS-CPU320; Mizar MZ7120,
⊭900726W1.11021)		MZ7122, MZ7124, MZ7130, MZ8120 & MZ81
		Sun Microsystems 3E Board Set; Motorola
		MVME147 Series & MVME141 (MC68030),
		MVME133 Series, MVME134, MVME135 &
		MVME136 (MC68020), MVME-165& MVME16
		Tadpole TP32V & TP33M (bare machines)
/erdix	MicroVAX 3100 (under	Intel iSBC 386/32 (bare
_	·	machine)
Corporation	VAX/VMS V5.2)	machine)
/ADS VAX/VMS = > Intel 386, VMS 5.2,		
/Ada-110-03315, Version 6.0		

(#900726W1.11022)

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration		
Verdix	DEC VAX-11, VAXserver,	Intel iSBC 386/32 (bare
Corporation	VAXstation, MicroVAX, VAX	machine)
VADS VAX/VMS = > Intel 386, VMS 5.3,	6000, VAX 8000 & VAX 9000	
VAda-110-03315, Version 6.0	Series of computers (under	
(BASE	VMS 5.3)	
#900726W1.11022)		
Verdix	MicroVAX 3100 (under Ultrix	Tektronix MV System, MV
Corporation	3.1)	68020 Support System, using
VADS VAX/Ultrix = > 68k, Ultrix 3.1,	•	TekDB Version 5.0.2
VAda-110-02125, Version 6.0		emulation software (bare
(#900726W1.11023)		machine simulation)
*Validated by Registration		
Verdix	DEC VAX-11, VAXserver,	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation	VAXstation, MicroVAX, VAX	Force CPU 21, CPU 29, CPU 30, CPU 31,
VADS VAX/ULTRIX	6000, VAX 8000 & VAX 9000	CPU 32, CPU 37 & Golden Triangle Firepower;
=> 68K, ULTRIX	Series of computers (under	Heurikon HK68/V30 Series, V2E Series & V2F
3.1,	Ultrix 3.1)	Series: Integrated Solutions VME68K20,
VAda-110-02125,	Oldix 0.1)	VME68K30, VME68225 & Liberator SBC; Matrix
Version 6.0		MS-CPU220 & MS-CPU320; Mizar MZ7120,
(BASE		MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130;
#900726W1.11023)		Sun Microsystems 3E Board Set; Motorola
#300/2011/1023)		MVME147 Series & MVME141 (MC68030),
		MVME133 Series, MVME134 & MVME135
		(MC68020); Tadpole TP32V & TP33M (bare
		machines); Tektronix MV System, MV 68020
		Support System using TekDB Version 5.0.2 emulation software (bare machine simulation)
		emulation software (bare machine simulation)
Verdix	DECstation 3100 (under	Motorola MVME147 (MC68030)
Corporation	Ultrix 3.1)	(bare machine)
VADS DEC-RISK = > 68k, Ultrix 3.1,		
VAda-110-61125, Version 6.0		
(#900726W1.11024)		
*Validated by Registration		
Verdix	DECstation 2100, 3100, 5000	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation	& 5200; and DECsystem 3100,	Force CPU 21, CPU 29, CPU 30, CPU 31,
VADS DEC-RISC =>	5000, 5100, 5200, 5400,	CPU 32, CPU 37 & Golden Triangle Firepower;
68K, Ultrix 4.0,	5500, 5810, 5820, 5830 &	Heurikon HK68/V30 Series, V2E Series & V2F
VAda-110-61125,	5840 (under ULTRIX 4.0)	Series; Integrated Solutions VME68K20,
Version 6.0	00 10 (and 00 and 00)	VME68K30, VME68225 & Liberator SBC; Matrix
(BASE		MS-CPU220 & MS-CPU320; Mizar MZ7120,
#900726W1.11024)		MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130
		Sun Microsystems 3E Board Set; Motorola
		MVME147 Series (MC68030), MVME133 Series,
		MVME134 & MVME135 (MC68020); Tadpole
		TP32V & TP33M (bare machines)
Verdix	IRM PISC System (SOCO Made)	Motorola MVME147 (MC68030)
_	IBM RISC System/6000 Model 530 (under AIX 3.1)	(bare machine)
Corporation	330 (under AIA 3.1)	(Dale Hachine)
VADS IBM RISC		
System/6000 = >68k, AIX 3.1,		
VAda-110-71125, Version 6.0		
(#900726W1.11025)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration Verdix	IBM RISC System/6000 Models	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation VADS IBM RISC System/6000 = > 68K, AIX 3.1, VAda-110-71125, Version 6.0	320, 520, 540, 730 & 930 (under AIX 3.1)	Force CPU 21, CPU 29, CPU 30, CPU 31, CPU 32, CPU 37 & Golden Triangle Firepower Heurikon HK68/V30 Series, V2E Series & V2F Series; Integrated Solutions VME68K20,
(BASE #900726W1.11025)		VME68K30, VME68225 & Liberator SBC; Matrix MS-CPU220 & MS-CPU320; Mizar MZ7120, MZ7122, MZ7124, MZ7130, MZ8120 MZ8130; Sun Microsystems 3E Board Set; Motorola MVME133 Series, MVME134, MVME135 & MVME147 Series; and Tadpole TP32V & TP33M (bare machines)
Verdix Corporation VADS IBM RISC System/6000 = > 386, AIX 3.1, VAda-110-71315, Version 6.0 (#900726W1.11026)	IBM RISC System/6000 Model 530 (under AIX 3.1)	Intel iSBC 386/116 (bare machine)
*Validated by Registration		
Verdix Corporation VADS IBM RISC System/6000 = >386, AIX 3.1, VAda-110-71315, Version 6.0 (BASE #900726W1.11026)	IBM RISC System/6000 Models 320, 520, 540, 730 & 930 (under AIX 3.1)	Intel iSBC 386/116 (bare machine)
*Validated by Registration	1714 7100 0 (2000 M)	La Liabo des las las las las las las las las las la
Verdix Corporation VADS IBM RISC System/6000=>386, AIX 3.1, VAda-110-71315, Version 6.0 (BASE #900726W1.11026)	IBM RISC System/6000 Models 220, 320, 320H, 340, 350, 520, 520H, 530H, 540, 550, 560, 730, 930, & 950 (under AIX 3.2)	Intel iSBC 486/125 (bare machine)
Verdix Corporation VADS VAX/VMS 5.2 => Intel	MicroVAX 3100 (under VMS Version 5.2)	Intel iSBC 386/116 using a WEITEK 3167 fpu (bare machine)
80386/WEITEK 3167, VAda-110-03315, Version 6.0 (#901129W1.11094)		
*Validated by Registration	DEC. 147.44.147.	Late 1 (200 000 /440 cm) = -
Verdix Corporation VADS VAX/VMS 5.3 = > Intel	DEC VAX-11, VAXserver, VAXstation, MicroVAX, VAX 6000, VAX 8000 & VAX 9000 Series of computers (under	Intel iSBC 386/116 using a WEITEK 3167 fpu (bare machine)
80386/WEITEK 3167, VAda-110-03315, Version 6.0 (BASE #901129W1.11094)	VMS 5.3)	
Verdix	Intel 302 System (under	Same as Host
Corporation VADS UNIX System V/386, Rel. 4, VAda-110-3232, Version 6.0 (#901129W1.11095)	UNIX System V/386, Release 4)	

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
*Validated by Registration	NCD coop coop coop coar	Anna I Inna
Verdix	NCR 3000, 3320, 3335, 3345,	Any Host
Corporation	3445, 3447, 3450, & 3550	
VADS UNIX System	(under UNIX System V/486,	
V/486, Rel. 4, VAda-110-3232, Version 6.0	Release 4)	
(BASE		
#901129W1.11095)		
,		
Verdix	Sequent Balance 8000 (under	Same as Host
Corporation	DYNIX Version 3.0)	
VADS Sequent Balance DYNIX		
/3.0, VAda-110-2323, Version 6.0 #901129W1.11096)		
#901129**1.11090)		
Verdix	Sun-4/260 (under SunOS 4.0)	Motorola MVME147 (68030)
Corporation		(bare machine)
VADS Sun4 => 68K,		
Sun OS 4.0,		
VAda-110-40125,		
Version 6.0		
(#901129W1.11097)	·	
*Validated by Registration		
Verdix	Sun-4/20, /65, /110 & /150;	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation	SPARCserver 330, 370, 390,	Force CPU 21, CPU 29, CPU 30, CPU 31,
VADS Sun4 => 68K,	470 & 490; SPARCstation	CPU 32, CPU 37 & Golden Triangle Firepowe
Sun OS 4.0,	SLC, 1, 1+, 2, 330 & 370;	Heurikon HK68/V30 Series, V2E Series & V2F
VAda-110-40125,	and SPARCengine 1 VME	Series; Integrated Solutions VME68K20,
Version 6.0	(under SunOS 4.1)	VME68K30, VME68225 & Liberator SBC;
(BASE		Matrix MS-CPU220 & MS-CPU320; Mizar
#901129W1.11097)		MZ7120, MZ7122, MZ7124, MZ7130, MZ8120
		MZ8130; Sun Microsystems 3E Board Set;
		Motorola MVME110 (MC68000), MVME133
		Series, MVME134, MVME135 & MVME136
		(MC68020), MVME147 Series & MVME141
		(MC68030), MVME-165 & MVME-167
		(MC68040); Tadpole TP32V & TP33M (bare machines)
		macinies)
Verdix	Sun-4/260 (under SunOS 4.0)	Sun-3/260 (under SunOS 4.0)
Corporation		
VADS Sun-4 = >		
Sun-3, Sun OS 4.0,		
VAda-110-4013, Version 6.0		
(#901129W1.11098)		
Validated by Registration		
/erdix	Sun-4/20, /65, /110, /150,	Sun-3/50, /60, /80, /150,
Corporation	/260 & /280; SPARCserver	/160, /260, /280, /470 &
VADS Sun-4 =>	330, 370, 390, 470 & 490;	/480 (under SunOS 4.1)
Sun-3, Sun OS 4.0,	SPARCstation SLC, 1, 1+, 2,	
VAda-110-4013, Version 6.0	330 & 370; and SPARCengine	
(BASE #901129W1.11098)	1 VME (under SunOS 4.1)	
, 00 · 120 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·		
Verdix	AT&T 3B2/600G (under UNIX	Same as Host
Corporation	System V, Release 3.2.2)	
VADS AT&T 3B2/600G UNIX		
System V, Release 3.2.2,		
VAda-110-5151, Version 6.0		
(#901129W1.11099)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix	UD 0000 Model 250 (under	Motorola MVME133A (68020)
Corporation	HP 9000 Model 350 (under HP-UX 7.0)	(bare machine)
VADS HP-9000/300	HF-0X 7.0)	(Date Machine)
= > 68K, HP-UX 7.0		
VAda-110-15125, Version 6.0		
(#901129W1.11100)		
*Validated by Registration		
Verdix	HP 9000 Series 300 Models	Cyclone CVME 44, CVME 46 & CVME 48;
Corporation	310, 320, 330, 340, 350,	Force CPU 21, CPU 29, CPU 30, CPU 31, CPU
VADS HP-9000/300	360 & 370 (under HP-UX 7.0)	32, CPU 37 & Golden Triangle Firepower;
= > 68K, HP-UX		Heurikon HK68/V30 Series, V2E Series & V2F
7.0,		Series; Integrated Solutions VME68K20,
VAda-110-15125,		VME68K30, VME68225 & Liberator SBC; Matrix
Version 6.0		MS-CPU220 & MS-CPU320; Mizar MZ7120,
(BASE		MZ7122, MZ7124, MZ7130, MZ8120 & MZ8130
#901129W1.11100)		Sun Microsystems 3E Board Set; Motorola
		MVME147 Series (MC68030), MVME133 Series
		MVME134 & MVME135 (MC68020); Tadpole TP32V & TP33M (bare machines)
		· ·
Verdix	Data General AViiON Model	Same as Host
Corporation	5120 (under DG/UX 4.3)	
VADS BCS/88K, AViion DGUX 4.3,		
VAda-110-8080, Version 6.1		
(#901129W1.11101)		
*Validated by Registration		
Verdix	DG AViiON Models 4000,	Any Host
Corporation	4000GHI, 4020, 4100, 4120,	
VADS BCS/88K,	5010, 5200, 5220, 5240,	
AViion DGUX 4.3,	5300, 5310, 5400, 5402,	
VAda-110-8080,	5410, 5412, 6200 & 6220	
Version 6.1	(under DG/UX 4.3)	
(BASE #901129W1.11101)		
*Validated by Registration		
Verdix	Data General AViiON Models	Any Host
Corporation	4000, 4000GHI, 4020, 4100,	701y 11000
VADS BCS/88K	4120, 5010, 5200, 5220,	
AViion DGUX 5.4,	5240, 5300, 5310, 5400,	
VAda-110-8080,	5402, 5410, 5412, 6200 &	
Version 6.1	6220; MODCOMP Real Star	
(BASE	Family (under DG/UX 5.4)	
#901129W1.11101)	,	
*Validated by Registration		
Verdix	MODCOMP Real Star Family	Any Host
Corporation	(under REAL/IX C.0.2)	•
VADS BCS/88K,	, , ,	
VAda-110-8080,		
Version 6.1		
(BASE		
#901129W1.11101)		
*Validated by Registration		
Verdix	Motorola 8000 Delta Series	Any Host
Corporation	(MC88000), all models	
VADS BCS/88K,	(under Unix System V/88,	
VAda-110-8080, Version 6.1	R32V3)	
(BASE		
#901129W1.11101)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Verdix	Sun-4/490 (under SunOS 4.1)	SPARCengine 1E (bare
Corporation	3411-4/490 (dilder 341103 4.1)	machine)
VADS Sun4 => SPARC, Sun OS 4.1,		macimie)
VAda-110-40440, Version 6.0		
(#901129W1.11102)		
*Validated by Registration		
Verdix	Sun-4/20, /65, /110, /150 &	SPARCengine 1E (bare
Corporation	/260; SPARCserver 330, 370,	machine)
VADS Sun4 = > SPARC,	390, 470 & 490; and	
Sun OS 4.1,	SPARCstation SLC, 1, 1+, 2,	
VAda-110-40440, Version 6.0 (BASE	330 & 370 (under SunOS 4.1)	
#901129W1.11102)		
Verdix	Sun 3/260 (under SunOS	Motorola MVME165 (68040)
Corporation	Release 4.0)	(bare machine)
VADS Sun-3 SunOS = > 68k,		
VAda-110-13140, Version 6.0 (#910517W1.11149)		
*Validated by Registration		
Verdix	Sun Microsystems Sun-3	Motorola MVME 165 (MC68040)
Corporation	computer family (under	(bare machine)
VADS Sun-3 SunOS = > 68k,	SunOS 4.1)	(,
VAda-110-13140, Version 6.0		
(BASE		
#910517W1.11149)		
Verdix	DECstation 5000-200 (under	Lockheed Sanders STAR MVP
Corporation	ULTRIX V4.0)	(R3000) (bare machine)
VADS DEC-RISC => MIPS R3000,		
VAda-110-61620, Version 6.1 (#910517W1.11150)		
*Validated by Registration		
Verdix	DEC DECstation & DECsystem	Lockheed Sanders STAR MVP
Corporation	computer families (under	(R3000) (bare machine)
VADS DEC-RISC = > MIPS R3000,	ULTRIX 4.0)	
VAda-110-61620, Version 6.1		
BASE		
#910517W1.11150)		
Verdix	MicroVAX 3600 (under VMS	Integrated Device Technology
Corporation	V5.2)	IDT7RS302 (bare machine)
VADS VMS = > MIPS R3000,		
/Ada-110-03620, Version 6.1 (#910517W1.11151)		
Validated by Registration		
Verdix	DEC VAX-11, VAXserver,	Integrated Device Technology
Corporation	VAXstation, MicroVAX, VAX	IDT7RS302 (bare machine)
VADS VMS = > MIPS R3000,	6000, VAX 8000 & VAX 9000	
VAda-110-03620, Version 6.1	Series of computers (under	
(BASE	VMS 5.3)	
#910517W1.11151)		
√erdix	Sun 4/280 (under SunOS	Motorola MVME165 (68040)
Corporation	Release 4.0)	(bare machine)
VADS Sun-4 SunOS = > 68k,		
VAda-110-40140, Version 6.0		
(#910517W1.11152)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
CDRITICALD #	MACIII & (00)	MACIIIVE & (00)
*Validated by Registration		
Verdix	Sun Microsystems Sun-4.	Motorola MVME165 (68040)
Corporation	SPARCserver & SPARCstation	(bare machine)
VADS Sun4 SunOS = > 68k,	computer families (under	(Said Madimid)
VAda-110-40140, Version 6.0	SunOS 4.1)	
(BASE	31 <i>,</i>	
#910517W1.11152)		
Verdix	DECstation 2100 (under	Motorola MVME181 (bare
Corporation	ULTRIX V4.0)	machine)
VADS DEC-RISC => 88k,	OLITIX V4.0)	macinie)
· · · · · · · · · · · · · · · · · · ·		
VAda-110-61680, Version 6.1		
(#910517W1.11153)		
*Validated by Registration		
Verdix	DEC DECstation & DECsystem	Motorola MVME181 (88000)
Corporation	computer families (under	(bare machine)
VADS DEC-RISC => 88k,	ULTRIX 4.0)	
VAda-110-61680, Version 6.1		
(BASE		
#910517W1.11153)		
Verdix	Sun 4/20 (under SunOS	Motorola MVME147SA (bare
Corporation	4.1.1)	machine, using vxWorks 5.0)
VADSworks Sun4 => 68k,	,	, ,
VAda-115-40800, Version 2.0		
(#910517W1.11154)		
*Validated by Registration		
Verdix	Sun Microsystems Sun-4,	Force CPU 21, CPU 29, CPU 30, CPU 31, CPU
Corporation	SPARCserver & SPARCstation	32, CPU 33, CPU 37, & Golden Triangle Fire-
VADSworks Sun4 =>	computer families (under	power; General Micro Systems GMSV17 &
68k,	SunOS 4.1)	GMSV37; Heurikon HK68/V20, /V2E, /V2F,
VAda-115-40800,		/V2FA, /V30, /V30XE, /V3E, & /V3F; Ironics
Version 2.0		IV-3201a, 3204a, 3220, & 3230; Matrix MS-CPU
(BASE		320; Mizar MZ7122 & MZ7124; Motorola MVME
#910517W1.11154)		133 Series, MVME135, MVME135A, MVME141,
		MVME143, & MVME147; Radstone PME 68-25
		& 68-31; SBE VLAN-e & VPU30; Sun Micro-
		systems 3E; Tadpole Technology TP32V-4MB
		(bare machines, using vxWorks 5.0)
Verdix	Zenith Z-486/25E (under SCO	Same as Host
Corporation	UNIX i386 release 3.2)	
VADS UNIX System V/486, SCO UNIX		
3.2, VAda-110-3232, Version 6.0		
(#910517W1.11155)		
*Validated by Registration		
Verdix Corporation	Zenith Z-486/33E (under SCO	Same as Host
VADS UNIX System V/486, SCO UNIX	UNIX i386 release 3.2)	30,110 00 1100
3.2, VAda-110-3232, Version 6.0	311/1 1000 1010a00 0.2/	
(BASE		
#910517W1.11155)		
Verdix	Sun 4/290 fundar Sun OS	Ironics IV9001 board (AMD
	Sun 4/280 (under SunOS	· ·
Corporation	4.0.3)	29000) (bare machine)
VADS Sun-4 SunOS = > AMD 29K, 6.0		
VAda-110-40525, Version 6.0		
(#910517W1.11156)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)	
*Validated by Registration			
Verdix	Sun Microsystems Sun-4,	Ironics IV9001 board (AMD	
Corporation	SPARCserver & SPARCstation	29000) (bare machine)	
VADS Sun4 SunOS	computer families (under	, (,	
= > AMD 29K,	SunOS 4.1)		
VAda-110-40525,	,		
Version 6.0			
(BASE			
#910517W1.11156)			
Verdix	Intel 402 (under SCO UNIX	Same as Host	
Corporation	3.2v2.e)		
VADS UNIX System			
V/486, SCO UNIX			
3.2,			
VAda-110-3232,			
Version 6.1			
(#910517W1.11157)			
Verdix	MIPS RC3230 (under RISC/os	Same as Host	
Corporation	4.52)		
VADS MIPS,			
VAda-110-6262,			
Version 6.1			
(#910920W1.11200)			
Verdix	MicroVAX 3100 (under VMS	Motorola MVME165 (68040)	
Corporation	5.3)	(bare machine)	
VADS VAX/VMS =>			
68040,			
VAda-110-03140,			
Version 6.0			
(#910920W1.11201)			
*Validated by Registration			
Verdix	DEC VAX-11, VAXserver,	Motorola MVME165 (68040)	
Corporation	VAXstation, MicroVAX, VAX	(bare machine)	
VADS VAX/VMS =>	6000, VAX 8000, & VAX 9000		
68040,	Series of computers (under		
VAda-110-03140,	VMS 5.3)		
Version 6.0			
(BASE			
#910920W1.11201)			
Verdix	IBM RISC System/6000 Model	IDT 7RS302 (R3000) (bare	
Corporation	530 (under AIX 3.1)	machine)	
VADS IBM RS/6000 => MIPS R3000,			
VAda-110-71620, Version 6.1			
(#910920W1.11202)			
*Validated by Registration			
Verdix	IBM RISC System/6000 Models	IDT 7RS302 (R3000) (bare	
Corporation	320, 520, 540, 730, & 930	machine)	
VADS IBM RS/6000 AIX 3.1,	(under AIX 3.1)		
VAda-110-71620, Version 6.1			
(BASE			
#910920W1.11202)			
Verdix	SPARCserver 490 (under	LSI LR33000 Pocket Rocket	
Corporation	SunOS Release 4.1)	Evaluation board (R3000)	
VADS Sun-4 => MIPS R3000,		(bare machine)	
VAda-110-40620, Version 6.1			

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
Malidated has Decistanting		
*Validated by Registration Verdix	Sun Microsyntomo Sun 4	LCLL P22000 Pooket Pooket
	Sun Microsystems Sun-4,	LSI LR33000 Pocket Rocket
Corporation	SPARCserver, & SPARCstation	Evaluation board (R3000)
/ADS Sun-4 = > MIPS R3000,	computer families (under	(bare machine)
/Ada-110-40620, Version 6.1	SunOS 4.1)	
BASE (#01000)4/1 11205)		
#910920W1.11205)		
/erdix	Sun-4/280 (under SunOS	Motorola MVME101 (68000)
Corporation	Release 4.0.3)	with MVME222-1 memory board
/ADS Sun-4 SunOS => MC68000/10,		(bare machine)
/Ada-110-40128, Version 6.0		
#910920W1.11206)		
Walidated by Registration		
Validated by Registration /erdix	Sun Microsystems Sun-4,	Motorola MVME101 (68000)
Corporation	SPARCserver, & SPARCstation	with MVME222-1 memory board
/ADS Sun4 => MC68000/10,		
	computer families (under	(bare machine)
VAda-110-40128, Version 6.0 (BASE	SunOS 4.1)	
(BASE #910920W1.11206)		
Validated by Registration	Con Mineral Control	Materials 20000
Verdix	Sun Microsystems Sun-4,	Motorola 68302,
Corporation	SPARCserver, SPARCstation,	Philips-Signetics 68070, &
VADS Sun-4 = > MC68000/10, SunOS	& SPARCengine computer	Toshiba 68301 (bare
4.1, VAda-110-40128, Version 6.0	families (under SunOS 4.1)	machines)
(BASE		
#910920W1.11206)		
/erdix	Sun-4/280 (under SunOS	Motorola CPU32 - M68332EVS
Corporation	Release 4.0.3)	Evaluation System (68332)
VADS Sun-4 SunOS = > CPU32,	1 616436 4.0.0)	(bare machine)
VAda-110-40150, Version 6.0		(bare machine)
(#910920W1.11207)		
#910920441.11207)		
Validated by Registration		
Verdix	Sun Microsystems Sun-4,	Motorola CPU32 - M68332EVS
Corporation	SPARCserver, & SPARCstation	Evaluation System (68332)
VADS Sun-4 SunOS = > CPU32,	computer families (under	(bare machine)
/Ada-110-40150, Version 6.0	SunOS 4.1)	
BASE	•	
⊭910920W1.11207)		
Molidated by Donistration		
Validated by Registration /erdix	Sun Microsystems Sun-4,	Motorola CPU32-68331,
Verdix Corporation	•	-68333, & -68340 Evaluation
•	SPARCserver, SPARCstation,	Systems (bare machines)
VADS Sun-4 SunOS => CPU32,	& SPARCengine computer	Systems (Date machines)
/Ada-110-40150, Version 6.0	families (under SunOS 4.1)	
BASE (************************************		
¥910920W1.11207)		
/erdix	IBM PS/2 Model 80 (under	Same as Host
Corporation	AIX 1.1)	
/ADS IBM PS/2, AIX 1.1,		
/Ada-110-3535, Version 6.1		
#910920W1.11208)		
lording	MIDS DOSSES (under PICO /co	Lookhood Sandara STAD MA/D
/erdix	MIPS RC3230 (under RISC/os	Lockheed Sanders STAR MVP
Corporation	4.52)	(R3000) (bare machine)
/ADS MIPS => MIPS R3000,		
/Ada-110-62620, Version 6.1		
(#910920W1.112 09)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
CERTIFICATION III	Wilcimiz a (OD)	1110111110 6 (00)
Verdix	Sun-3/280 (under SunOS	Motorola MVME147 (68030)
Corporation	Release 4.0)	(bare machine)
VADS Sun-3 SunOS = > 68020/30 ARTX,	•	,
VAda-110-13120, Version 6.0		
(#910920W1.11210)		
*Validated by Registration		
Verdix	Sun Microsystems Sun-3	Cyclone CVME 44, 46, & 48; Force CPU 21,
Corporation	computer family (under	CPU 29, CPU 30, CPU 31, CPU 32, CPU 37,
VADS Sun3 SunOS	SunOS 4.1)	& Golden Triangle Firepower; Heurikon
= > 68020/30 ARTX,		HK68/V2E Series, /V2F Series, & /V30 Serie
VAda-110-13120,		Integrated Solutions VME68K20, 68K30, 6823
Version 6.0		& Liberator SBC; Matrix MS-CPU220 &
(BASE		MS-CPU320; Mizar MZ7122, MZ7124, MZ713
#910920W1.11210)		MZ8120, & MZ8130; Motorola MVME133
ŕ		Series, MVME134, MVME135, MVME136,
		MVME141, & MVME147 Series; Sun
		Microsystems 3E board set; and Tadpole
		Technology TP32V & TP32M (bare machines
Verdix	SPARCstation 2 (under SunOS	Motorola MVME147 (68030)
Corporation	Release 4.1.1)	(bare machine)
VADS Sun4 SunOS = > 68020/30 ARTX,	1 1010 4350 4.1.1)	(bare machine)
VAda-110-40120, Version 6.0		
(#910920W1.11211)		
(#310320**1.11211)		
*Validated by Registration		
Verdix	Sun Microsystems Sun-4,	Motorola MVME147 (68030)
Corporation	SPARCserver, & SPARCstation	(bare machine)
VADS Sun4 SunOS $=>68020/30$ ARTX,	computer families (under	
VAda-110-40120, Version 6.0	SunOS 4.1)	
(BASE		
#910920W1.11211)		
Verdix	IBM RISC System/6000 Model	Motorola MVME147 (68030)
Corporation	530 (under AIX 3.1)	(bare machine)
VADS IBM RISC System/6000 AIX	,	
= > 68020/30 ARTX, VAda-110-71120,		
Version 6.0		
(#910920W1.11212)		
*Validated by Registration		
Verdix	IBM RISC System/6000 Models	Motorola MVME147 (68030)
Corporation	320, 520, 540, 730, & 930	(bare machine)
VADS IBM RISC	(under AIX 3.1)	(baro maomio)
System/6000 AIX = > 68020/30 ARTX,	(dilder ALX 3.1)	
VAda-110-71120, Version 6.0		
•		
(BASE #910920W1.11212)		
·		
Verdix	Okidata I860 Workstation	Same as Host
Corporation	(under UNIX SYSTEM V/860	
VADS SYSTEM V/860 RELEASE 4,	RELEASE 4 v1.0)	
VAda-110-9090, Version 6.1 (#910920W1.11213)		
ŕ	A# VAV 0555 / - 1 - 1 - 1 - 1	tension B/0004 hazard /ABAD
Verdix	MicroVAX 3600 (under VMS	fronics IV9001 board (AMD
Corporation	5.2)	29000) (Am29000 bare VME
VADS VMS => AMD29000,		machine)
VAda-110-03525, Version 6.04		
(#910920W1.11214)		
Validated by Registration		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)
/erdix	DEC VAX-11, VAXserver,	Ironics IV9001 board (AMD
Corporation	VAXstation, MicroVAX, VAX	29000) (Am29000 bare VME
VADS VAX VMS =>	6000, VAX 8000, & VAX 9000	machine)
		macrime)
AMD 29K,	Series of computers (under	
VAda-110-03525, Version 6.04	VMS 5.3)	
(BASE #910920W1.11214)		
,		
Verdix	Sun-3/180 (under SunOS	Ironics IV9001 board (AMD
Corporation	4.1.1)	29000) (Am29000 bare VME
VADS Sun-3 SunOS = > AMD 29K,		machine)
VAda-110-13525, Version 6.04		
(#910920W1.11215)		
*Validated by Registration		
Validated by Negistration	Sun Microsystems Sun-3	Ironics IV9001 board (AMD
Corporation	computer family (under	29000) (Am29000 bare VME
VADS Sun-3 SunOS = > AMD 29K.	SunOS 4.1)	machine)
VADS 3011-3 3011-03 = > AMD 29K, VAda-110-13525, Version 6.04	Gallog 4.1)	machine)
(BASE		
(BASE #910920W1.11215)		
#310320 ** 1.11213)		
Verdix	AT&T 3B2/600GR (under UNIX	Same as Host
Corporation	System V, Release 4.0)	
VADS AT&T 3B2/600GR UNIX		
System V, Release 4.0,		
VAda-110-6363, Version 6.1		
(#920513W1.11252)		
,		
Verdix	IBM RISC System/6000 Model	IBM RISC System/6000 Model
Corporation	530 (under AIX 3.2)	320 (bare machine)
VADS IBM RISC System/6000 = >		
IBM RISC System/6000,		
VAda-110-71710, Version 6.2		
(#920513W1.11253)		
Verdix	Motorola 88000 Delta (under	Motorola MVME187 (88000)
Corporation	R32V3 920117)	(bare machine)
VADS BCS = > 88K, VAda-110-80680,	10210 02011/	(Secondary)
Version 6.1		
(#920513W1.11254)		
Verdix	Sun-4/20 (under SunOS,	Motorola MVME167A (68040)
Corporation	4.1.1)	(bare machine, using VxWorks
VADSworks Sun4 = > 68K,		5.0)
VAda-115-40800, Version 2.0		
(#920513W1.11256)		
Verdix	Sup A/20 funder Sup CC	Sun SDADConging to Page
	Sun-4/20 (under SunOS,	Sun SPARCengine 1e (bare
Corporation	4.1.1)	machine, using VxWorks v5.0)
VADSworks Sun4 => SPARC,		
VAda-115-40850, Version 2.0		
(#920513W1.11257)		
Verdix Corporation	Sun-4/260 (under SunOS,	Intel iSBC 386/20p (bare
VADS Sun SPARC = > 386,	Version 4.1.2)	machine)
VAda-110-40315, Version 6.2	, s.c.c.,	,
(#920513W1.11258)		
	W VO 0400 / 1	Comp on Heat
Wang	Wang VS 8480 (under Wang	Same as Host
Laboratories, Inc.	VSOS 7.30.02)	
Wang VS Ada Version 5.00.00		
(#901129W1.11093)		

VENDOR, COMPILER & CERTIFICATE #	HOST MACHINE & (OS)	TARGET MACHINE & (OS)	
#Malidated by Docistration			
*Validated by Registration	Wang VS Models: 100 & 300;	Same as Host	
Wang	•	Same as most	
Laboratories,	5430, 5440, 5450 & 5460;		
nc.	7010, 7110, 7120, 71 50 &		
Wang VS Ada	7310; 8220, 8230, 8260,		
Version 5.00.00	8430, 8460, 8470 & 8480;		
(BASE	and 10050, 10075 & 10100		
#901129W1.11093)	(under all VS OS versions		
, 66 (1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 () 1.66 (7.21.xx & 7.30.xx)		
York Software	Intergraph InterPro 3050	Same as Host	
Engineering	Workstation (under CLIX		
-	•		
Limited	R3.1)		
York Ada Compiler			
Environment (ACE)			
Release 5			
#901127N1.11073)			
*Validated by Registration			
York Software	Intergraph Mobile GIS/C2	Same as Host	
Engineering	(under CLIX Release 3.1)		
imited	(and of Ozar Frontier Orl)		
York Ada Compiler			
Environment (ACE)			
Release 5			
BASE			
#901127N1.11073)			
Validated by Registration			
York Software	InterPro 125, 225, 340,	Any Host	
		Ally Flost	
Engineering	360, 2020, 3070, 6040,		
imited	6240, 6080 & 6280 (under		
York Ada Compiler	CLIX Release 3.1)		
Environment (ACE)			
Release 5			
BASE			
#901127N1.11073)			
Validated by Registration			
fork Software	InterView 220 & 2050 (under	Any Host	
	InterView 220 & 3050 (under	Any Host	
Engineering	CLIX Release 3.1)		
imited			
fork Ada Compiler			
Environment (ACE) Release 5			
BASE			
#901127N1.11073)			
Validated by Registration			
ork Software	InterAct 220, 2020, 2050	Any Host	
	InterAct 220, 2020, 3050,	Any Host	
Engineering Limited	6040, 6080, 6240 & 6280		
ork Ada Compiler	(under CLIX Release 3.1)		
Environment (ACE) Release 5			
BASE			
#901127N1.11073)			
Validated by Registration			
	InterServe 200, 300, 2000,	Any Host	
	11 11 21 C 22 1 V 22 (C A A A C A A A A C A A A A A A A A A	Ally 1 lost	
/ork Software			
ork Software Engineering Limited	3000, 4200, 5200, 6000,		
York Software Engineering Limited York Ada Compiler	3000, 4200, 5200, 6000, 6105 & 6505 (under CLIX		
fork Software Engineering Limited fork Ada Compiler Environment (ACE) Release 5	3000, 4200, 5200, 6000,		
York Software Engineering Limited York Ada Compiler	3000, 4200, 5200, 6000, 6105 & 6505 (under CLIX		

2.10 PASCAL PROCESSORS

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
Buil HN	Pascal Version PCVS1.1 NIST-92/1683 Level 0/1	DPS 90 GCOS-8 Version SR40201	7/1/93	DPS 8000, 9000 GCOS-8 Version SR4020	
Bull S.A.	Pascal SXL-3002 Version 01.01 PCVS/0003/F Level 0/1	DPX/2 250 BOS, Version 2.0	3/31/93		
Control Data Corporation	PASCAL/VE Version 1.8 Level 780 NIST-92/1423 Level 0/1	CYBER 180-995 NOS/VE Version 1.6.1 Level 780	4/1/93	Cyber 180 Ser; Cyber 2 NOS/VE Ver. 1.6.1 Level 76	
Digital Equipment Corporation	VAX Pascal, Version 4.2 NIST-91/2027 Level 0/1	VAX 6000-350 VAX/VMS Version 5.4	12/1/92	VAX 4000 Mod 200 300 Ser 200 300 400 500; 83 8250 8300 8350 85xx 86 8650 8700 8800 8810 83 8830 8840; 9000 Mod 2 400; VAXft 3000-310; V/ 730/750/780/785; Micro 2000 3100 3300 3400 33 3600 3800 3900; VAXsta 2000 3100 3200 3500 33 3540; VAXserver 3100 3 3400 3500 3600 3602 33 3900 4000 Mod 200 300 Mod 210/220 310/320 4 510/520 VMS Version 5.4	200 500 820 10 Ser AX11/ bVAX II 500 ation II 520 300 800 0; 6000
	DEC Pascal for Hercules/1 Version 1.2 NIST-91/2028 Level 0/1	DECstation 5000-200 Hercules/1	12/1/92	DECstation 2100/3100; models 100 & 200; 500 130; DECsystem 5100 Hercules/1	
	DEC Pascal for ULTRIX TM RISC Version 1.2 NIST-91/2029 Level 0/1	DECstation 3100 ULTRIX V4.2	12/1/92	DECstation 130; 2100 / 5000 mod 100 120/125 125CX 120/125PX 120/ PXG TURBO 200 200PXG 200PX 200PXG 200PX 200PXG 245; DECsystems 3100 5100 5000 Model 200 5 5820 5840 5400 5500 50 ULTRIX Versions 4.2 & 4.2	120/- (125 EX TURBO 3100s 810 900
Edinburgh Portable Compilers	Pascal-E Version 4.3.2 PCVS/0092/UK Level 0	ICL DRS 6000 DRS/NX 6000 Version 4.0	1/1/93		
	Pascal-E Version 4.3.2 PCVS/0093/UK Level 0	ICL DRS 3000 DRS/NX 3000 Version 5.0	1/1/93		
	Pascal-E Version 4.3.3 PCVS/0091/UK Level 0	PC/AT 80386 Interactive UNIX Release 3.2.2	1/1/93		

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE		NONCON- ORMITIES
IBM Canada LTD	IBM AIX XL PASCAL Compiler/6000 Version 1 Release 1 NIST-92/1342 Level 0	IBM RISC System/6000 POWERstation 530 IBM AIX Version 3 Release 2	3/1/93	IBM RISC System/6000 Powerstation/ Powerserver 2 320H, 340, 350, 520H, 530, 530E, 540, 550, 560, 560F, 7 Powerserver 930, 950 AIX RISC System/6000 Version 3 Release 2	
Intergraph Corporation	Pascal-CLIPPER Version 1.8.4A NIST-92/1042 Level 0	CLIPPER IS4000 CLIX Version 5.7.3	12/1/92	CLIPPER C300 and C400 Series CLIX Version 5.7.3	Yes
Olivetti Systems & Networks	Olivetti Green Hills Pascal Version 1.2 IMQ/PCVS-002/92 Level 0	Olivetti LSX 5010 Olivetti Unix System V R4.0 Version 2	1/10/93		
Siemens Nixdorf Information Systems AG	SNI Pascal-XT Version 2.1B PCVS/0095/UK Level 0/1	MX300-50 SINIX-L Version 5.41	2/1/93		
	SNI Pascal-XT Version 2.1B PCVS/0097/UK Level 0/1	RM600 SINIX-P Version 5.41	2/1/93		
	SNI Pascal-XT Version 2.1A PCVS/0096/UK Level 0/1	MX300 SINIX-H Version 5.24	2/1/93		
	SNI Pascal-XT Version 2.2A PCVS/0094/UK Level 0/1	H120-I 7.500 BS2000 Version 10.0	2/1/93		
Unisys Corporation	A Series PASCAL83 Mark 4.0 NIST-91/2213 Level 0	Unisys A10 MCP/AS Mark 4.0	10/1/92	Unisys A Series: Micro A, A ² , A3, A4, A5, A6, A9, A10, A12, A15, A16, A17, A19 MCP/AS Mark 4.0	1,

2.11 C PROCESSORS

VENDOR	PROCESSOR ID VSR # & LEVEL	HARDWARE & OPERATING SYSTEM	EXPIRY DATE	OTHER ENVIR HW/OS	NONCON- FORMITIES
IBM Canada Ltd.	XL C Compiler Version 1.2 NIST-92/1851	IBM RISC System/6000 AIX for RISC System/6000 Version 3 Release 2	7/1/93	IBM RISC System/6000 POWERstation/POWER 220, 320, 320H, 340, 35 520H, 530, 530H, 540, 5 560; POWERserver(s) 730, 93 970 AIX for RISC System/6000 Version 3 Release 2	servers 0, 520, 50,

3. DATABASE LANGUAGE (SQL)

3.1 FIPS Database Language Standards

As specified by the FIPS, FIRMR and the associated Federal ADP and Telecommunications Standards Index, Federal agencies, when acquiring SQL processors, must assure that processors are in accordance with FIPS PUB 127-1, Database Language SQL.

3.2 Organization of Database Language Processor Entries

The entries in the VPL are a very limited extract from the Validation Summary Report (VSR) available from NIST. See 3.4 below.

The entries in the VPL for database language processors are presented as follows:

- The VENDOR ID column contains the name of the Vendor of the processor.
- The PROCESSOR ID column contains the name of the processor, its version number, the VSR number, and the Expiry date of the Notification of Registration.
- The INTERFACES & COMPILERS column contains the names of associated interactive SQL or programming language interfaces, and identification of the programming language compilers that interface with the SQL processor. A listing in the COMPILERS column is not an indication that the compiler has been validated for the applicable programming language standard. See the preceding "Programming Languages" Section for a list of validated compilers.
- The HARDWARE & OPERATING SYSTEM column presents the hardware and operating system environment used during the validation.
- The entries in the OTHER HW/OS & COMPILERS column include other hardware and operating system environments in which the processor operates, and the programming language compilers that interface with the SQL processor. The listings of the compilers and operating systems may contain a range of versions that are supported.
- The NONCONFORMITIES column lists the number of nonconformities for each interface tested (Ada, C, COBOL, Fortran, and Pascal). If a product supports both module language and embedded interfaces for a given programming language, then the programming language will be preceded by "Embedded" or "Module," as appropriate. Schema nonconformities are deficiencies in support for standard schema definition language constructs. "FIPS Flagger" in this column indicates that the mandatory FIPS Flagger requirement of FIPS 127-1 was not implemented. "IEF" nonconformities are deficiencies in the optional "Integrity Enhancement Feature" of FIPS 127-1. "Sizing" designates failure to support default minimum "Sizing for Database Constructs" specified under "Special Procurement Considerations" of FIPS 127-1. "Interactive" errors are deficiencies in the "Interactive SQL" interface defined in the "Special Procurement Considerations" section of FIPS 127-1. Refer to VSR for details. The number of nonconformities is only one limited measure of the quality of an SQL interface. It is more important to analyze the nature of each individual nonconformity and its impact on meeting user requirements.

3.3 Validation Requirements

The requirements for validation of database language processors are the same as those for programming language processors, listed in section 2.3.1.

3.4 Registered Report

A registered Validation Summary Report is issued for those SQL processors that have been tested and are considered to be in compliance with FIPS as specified by the FIPS, by the FIRMR, and the associated Federal ADP and Telecommunications Standards Index. VSRs are available from the Database and Graphics Group address below.

3.5 Validation Procedures and Test Suite

SQL processors are tested in accordance with procedures described in the NIST <u>Language Processor Validation Procedures for SQL Validation Service (Trial Use Period)</u>. The current version of the SQL Validation System is Version 2.0.2 (2.1 for Ada). The validation procedures and test suite are available from:

National Institute of Standards and Technology (NIST)
Computer Systems Laboratory
Database and Graphics Group
Building 225, Room A266
Gaithersburg, MD 20899
Telephone (301) 975-3258, (301) 975-3267 (Voice)
(301) 590-0932 (FAX)

3.6 SQL PROCESSORS

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	OTHER HW/OS & COMPILERS	NONCON- FORMITIES
Digital Equipment Corporation	VAX Rdb/VMS Version 4.1 Pre-release NIST-91/7071 12/1/92 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C Module C VAX C Version 3.0 Embedded COBOL Module COBOL VAX COBOL Version 4.4 Embedded Fortran Module Fortran VAX Fortran Version 5.0 Embedded Pascal Module Pascal VAX Pascal Version 4.1 Interactive SQL (FIPS Default)	VAXstation 3500; VAX 6220 VMS Version 5.4-2	VAX, MicroVAX, VAXsta VMS Versions 5.0-5.4 VAX C V 3.0 VAX COBOL V 4.2-4.4 VAX Fortran V 5.0-5.3 VAX Pascal V 3.9-4.1	tion
	VAX Rdb/VMS Version 4.1 Pre-release NIST-91/7072 10/1/92 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded Ada Module Ada VAX Ada Version 2.0	VAXstation 3500 VMS Version 5.4-2	VAX, MicroVAX, VAXsta VMS Versions 5.0-5.4 VAX Ada V2.0-2.2	tion
IBM Corporation	SQL/DS Version 3 Release 2 NIST-90/7021 1/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C IBM C/370 Version 1 Release 2 Embedded COBOL IBM VS COBOL II Version 1 Release 3.1 Embedded Fortran IBM VS Fortran Version 2 Release 4.0 Interactive SQL (FIPS Default)	IBM 3090 VM/XA SP Release 2	IBM 30xx, 43xx, 90xx, 90	93xx
	SQL/DS Version 3 Release 2 NIST-90/7022 1/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded COBOL IBM VS COBOL II Version 1 Release 3.2 Embedded Fortran IBM VS Fortran Version 1 Release 4.1 Interactive SQL (FIPS Default)	IBM 3090 VSE/ESA Release 1	IBM 30xx, 43xx, 90xx, 90	93xx

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	OTHER HW/OS & COMPILERS	NONCON- FORMITIE
	Database 2 (DB2) Version 2 Release 3 NIST-92/7201 5/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C IBM C/370 Ver 1 Rel 2 Embedded COBOL IBM SAA AD/CYCLE COBOL/370 Ver 1 Rel 1 Embedded Fortran IBM VS FORTRAN Ver 2 Rel 5 Module Language Ada IBM Ada/370 Ver 1 Rel 2 with IBM Ada/370 Module Processor for DB2 Interactive SQL (FIPS Default)	IBM ES9021-770 MVS/ESA SP V.3 R.1.3	IBM 30xx, 43xx, 9xxx MVS/XA SP V2R2 MVS/ESA SP V4R2	
Informix Software Inc	INFORMIX-OnLine Version 4.10 NIST-91/7031 2/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 Sun C 4.1	Sun 4 Model 260 Sun OS 4.1	Sun Model 4/60, 4/100, 4/200; Sun Sparcserver 1 1+, 330, 370, 390, 490; S Sparcstation 300, 330 Sun OS 4.1 Solbourne Series 4/601, 4/602, 4/603, 4/604, 5/6 5/602, 5/604, 5/671, 5/6 5/673, 5/674 OS/MP 4.0	Sun 01,
	INFORMIX-OnLine Version 4.10 NIST-91/7032 2/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 AT&T C 4.2	AT&T 3B2/700 Unix System V Release 3.2.1, Rev. 3	AT&T 3B2 300, 310, 400, 500, 600, 750 Unix System V Release 3.2.1, Rev. 3	1 C
	INFORMIX-OnLine Version 4.10 NIST-91/7033 2/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 HPUX C	HP 9000/825 HP-UX Version A.B7.00	HP 9000/808, 808S, 815, 815S, 822, 825, 825S, 83 834, 835, 835S, 835SE, 8 842, 845, 845S, 850, 852, 855 HP-UX A.B7.00	2, 40,
	INFORMIX-OnLine Version 4.10 NIST-91/7034 2/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 C 4.1	Prime EXL320 Unix System V 3.1		1 C

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	OTHER HW/OS & COMPILERS F	NONCON- FORMITIES
	INFORMIX-OnLine Version 4.10 NIST-91/7035 2/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version 4.10 Interactive C 4.1.5	INTEL W\$3000 Interactive Unix System V 3.2.2	Compaq Systempro 486 Compaq Deskpro 386/25; 386/33; 486/25 MDL120; 486/25 MDL 320; 486/25 MDL650; 486/33; Data General Dasher 386/386S Interactive Unix V/386 2.2 AT&T 6386; 6386/25; 6386/33 Unix System 3.2	x
	INFORMIX-ESQL/C Version AR4.00 NIST-91/7036 2/1/93 Features Tested: Level 2 ANSI SQL (single-user) FIPS Sizing Defaults FIPS Flagger	Schema Processor INFORMIX-SQL Version 4.00 Embedded C INFORMIX-ESQL/C Version AR4.00 Microsoft 6.0 C	Concord 386 MS-DOS 3.30	Compaq Deskpro 386/484 MS-DOS 3.30 IBM PC AT MS-DOS 4.0/3.30 Toshiba 3100 SX/3200 MS-DOS 4.01	5 14 C
	INFORMIX-OnLine Version 5.0 NIST-91/7037 5/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Sun C as bundled with Sun OS 4.1.1 Interactive SQL (FIPS Default) INFORMIX DB-Access	Sun SPARCserver 470 Sun OS 4.1.1	Sun Model 4/60, 4/100, 4/200, 4/260; Sun Sparcserver 1, 1+, 330, 3 390; Sun Sparcstation 300 330 Sun OS 4.1 - 4.1.1	
	INFORMIX-OnLine Version 5.0 NIST-91/7038 5/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C C as bundled with ULTRIX 4.0 rev 179 Interactive SQL (FIPS Default) INFORMIX DB-Access	DECSYSTEM 3100 ULTRIX 4.0 rev 179	DECSYSTEM 3100, 5100, 5400, 5500, 5810, 5820, 5830, 5840; DECSTATION 2100, 3100, 5000-200 ULTRIX 4.0 rev 179	1 IEF Schem
	INFORMIX-OnLine Version 5.0 NIST-91/7039 5/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C C as bundled with Software Development System 4.1.5 Interactive SQL (FIPS Default) INFORMIX DB-Access	Zenith 386/33E SCO Unix System V 3.2	Altos Series 5000; Bull HN DPX/Prostation 25I, 25E; Compaq Deskpro 386/25, 20E; Deskpro 386/33, System Pro; Deskpro 386/SX; Deskpro 486/25 MDL 120, 123; Deskpro 486/33 System Pro M; Systempro MDL 485 Dual Proc.; Dec System 316+, 325, 333 SCO Unix System V 3.2	

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	OTHER HW/OS & COMPILERS F	NONCON- ORMITIES
	INFORMIX-OnLine Version 5.01 Pre-release NIST-92/7191 3/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C 5.00 Sun C as bundled with Sun OS 4.1.1 Module Ada INFORMIX-ADA/SAME 5.00 Verdix Ada 6.03 Interactive SQL (FIPS Default) INFORMIX DB-Access 5.00	Sun 4/60 Sun OS 4.1.1	Sun Model 4/60, 4/100, 4/200, 4/260; Sun Sparcserver 1, 1+, 330, 37 390, 470; Sun Sparcstation 300, 330 Sun OS 4.1 - 4.1.1	
	Version 5.01 Pre-release INFORMIX-ESQL/Ada 4.00 Sun OS 4.1.1 4/200, 4/260; Sun Sparcserver 1, 1+ NIST-92/7195 3/1/93 Verdix Ada 6.03 Sparcserver 1, 1+ Features Tested: 300, 330		Sun Model 4/60, 4/100, 4/200, 4/260; Sun Sparcserver 1, 1+, 330, 37 390, 470; Sun Sparcstation 300, 330 Sun OS 4.1 - 4.1.1	n -, 330, 370, arcstation	
	INFORMIX-OnLine Version 5.0 NIST-92/7192 3/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C 5.00 C as bundled with ULTRIX 4.0 rev 179 Embedded Ada INFORMIX-ESQL/Ada 4.00 Verdix Ada 6.1 Module Ada INFORMIX-ADA/SAME 5.00 Verdix Ada 6.1 Interactive SQL (FIPS Default) INFORMIX DB-Access 5.00	DECSYSTEM 3100 ULTRIX 4.2 rev 96	DECSYSTEM 3100, 5100, 5400, 5500, 5810, 5820, 5830, 5840; DECSTATION 2100, 3100, 5000-200 ULTRIX 4.0 - 4.2	1 IEF Schem 7 Embedded
	INFORMIX-OnLine Version 5.0 NIST-92/7193 3/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C 5.00 C as bundled with Software Development System 4.1.5 Embedded Ada INFORMIX-ESQL/Ada 4.00 Verdix Ada 6.1 Module Ada INFORMIX-ADA/SAME 5.00 Verdix Ada 6.1 Interactive SQL (FIPS Default)	Zenith Z-486/25E SCO Unix System V 3.2	Altos Series 5000; Bull HN DPX/Prostation 25I, 25E; Compaq Deskpro 386/25, 20E; Deskpro 386/33, System Pro; Deskpro 386/SX; Deskpro 486/25 MDL 120, 123; Deskpro 486/33 System Pro M; Systempro MDL 485 Dual Proc.; Dec System 316+, 325, 333 SCO Unix System V 3.2	7 Embedded

INFORMIX DB-Access 5.00

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	•	ONCON- RMITIES
	INFORMIX-OnLine/Secure Version 4.10 Pre-release NIST-92/7194 3/1/93 Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger	Embedded C INFORMIX-ESQL/C Version 4.10 Sun C 4.1 Interactive SQL (FIPS Default) INFORMIX DB-Access 4.10	Sun 4 Model 260 Sun OS 4.1.1	Sun Model 4/60, 4/100, 4/200; Sun Sparcserver 1, 1+, 330, 370, 390, 490; Sun Sparcstation 300, 330 Sun OS 4.1.1 Sun C 4.1.1 Solbourne Series 4/601, 4/602, 4/603, 4/604, 5/601, 5/602, 5/604, 5/671, 5/672, 5/673, 5/674 OS/MP 4.0 Solbourne C4.0	1 C
NCR/ ShareBase	ShareBase III, Release 1.2 NIST-92/7251 7/1/93 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults	Embedded C Sun UNIX C Release 4.1.1	Client: Sun SPARC SLC SunOS, Release 4.1.1 Server: Server/8000 Sharebase III, Release 1.2	Client: Sun SPARC SLC SunOS, Release 4.1.1 Server: NCR System 3000 Model 3445 System V Release 4 (rel. 1.2)	FIPS Flagg
Oracle Systems Corporation	ORACLE RDBMS Version 7.0 Pre-release NIST-91/7137 10/1/92 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded Ada Pro*Ada Version 1.5 Verdix Ada Version 6.1.0 Embedded C Pro*C Version 1.5 Gnu C 3.2.1.3 Interactive SQL (FIPS Default) SQL*DBA Version 7.0	Data General AViiON 5220 DG/UX Release 5.4 AViiON	Data General AViiON: AV100, AV210, AV310CD, AV410, AV530, AV4100, AV4120, AV4600, AV4620, AV5200, AV5225, AV5240, AV5520, AV6200, AV6200- 20, AV6225, AV6225-20, AV6240, AV6240-20, AV7000, AV8000 DG/UX Release 5.4 AViiON	
	ORACLE RDBMS Version 7.0 Pre-release NIST-91/7051 10/1/92 Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C Pro*C Version 1.5 VAX C Version 3.1 Embedded COBOL Pro*COBOL Version 1.5 VAX COBOL Version 4.2 Embedded Fortran Pro*Fortran Version 1.5 VAX Fortran Version 5.2 Embedded Pascal Pro*Pascal Version 1.5 VAX Pascal Version 3.9 Interactive SQL (FIPS Default) SQL*DBA Version 7.0	DEC VAX 6560 VMS Version 5.4	VAX, MicroVAX, VAXStation VMS Versions 5.0 - 5.4	

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.		ONCON- RMITIES
	ORACLE RDBMS Version 7.0 Pre-release NIST-91/7131 10/1/92	Embedded Ada Pro*Ada Version 1.5 VAX Ada Version 2.1	DEC VAX 6560 VMS Version 5.4	VAX, MicroVAX, VAXStation VMS Versions 5.0 - 5.4	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger				
	ORACLE RDBMS Version 6.0 NIST-91/7052 4/1/93	Embedded C Pro*C Version 1.4 VAX C Version 3.1 Embedded COBOL	DEC VAX 6560 VMS Version 5.4	VAX, MicroVAX, VAXStation VMS Versions 4.6 - 5.4	2 Schema 14 C 11 COBOL 11 Fortran
	Features Tested: Level 2 ANSI SQL	Pro*COBOL Version 1.4 VAX COBOL Version 4.2			11 Pascal 9 Interactiv
	FIPS Sizing Defaults	Embedded Fortran Pro*Fortran Version 1.4 VAX Fortran Version 5.2 Embedded Pascal Pro*Pascal Version 1.4			FIPS Flagg
		VAX Pascal Version 3.9 Interactive SQL (FIPS Default) SQL*DBA Version 6.0 SQL*Plus Version 3.0			
	ORACLE RDBMS	Embedded Ada	DEC VAX 6560	VAX, MicroVAX, VAXStation	2 Schema
	Version 6.0 NIST-91/7132 10/1/92	Pro*Ada Version 1.4 VAX Ada Version 2.1	VMS Version 5.4	VMS Versions 4.6 - 5.4	11 Ada FIPS Flagg
	Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults				111 0 11499
	ORACLE RDBMS Version 7.0 Pre-release NIST-91/7133 10/1/92	Embedded Ada Pro*Ada Version 1.5 HP Ada 800 Version A.04.35	Hewlett-Packard 9000/87 HP-UX Version A.07.05	HP 9000/700 Series and HP 9000/800 Series HP-UX Version A.07.05	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger	Embedded C Pro*C Version 1.5 HP C Version A.07.10 Interactive SQL (FIPS Default) SQL*DBA Version 7.0			

VENDOR	PROCESSOR ID VSR # & EXPIRY DATE	INTERFACES & COMPILERS	HARDWARE & OPER. SYS.	•	ONCON- RMITIES
	ORACLE RDBMS Version 6.0 NIST-91/7134 10/1/92	Embedded Ada Pro*Ada Version 1.4 HP Ada 800 Version	Hewlett-Packard 9000/87 HP-UX Version A.07.05	HP 9000/700 Series and HP 9000/800 Series HP-UX Version A.07.05	11 Ada 14 C
	Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults	A.04.35 Embedded C Pro*C Version 1.4 HP C Version A.07.10			11 COBOL 11 FORTRA 9 Interactiv
	The Golding Bolladio	Embedded COBOL Pro*COBOL Version 1.4 Micro Focus COBOL/2			FIPS Flagge
		Version 1.1 Rev.2 Embedded FORTRAN Pro*FORTRAN Version 1.4 HP FORTRAN 77 Version A.07.00			
		Interactive SQL (FIPS Default)			
		SQL*DBA Version 6.0 SQL*Plus Version 3.0			
	ORACLE RDBMS Version 7.0 Pre-release NIST-91/7135 10/1/92	Embedded Ada Pro*Ada Version 1.5 Verdix Ada Version 6.0 Rev.3	Sun SPARCstation 1 Sun OS 4.1.1	Sun SPARCstation 300, 330; Sun SPARCserver 1, 1+, 330, 370, 390 Sun OS 4.1 - 4.1.1	
	Features Tested: Level 2 ANSI SQL Integrity Enhancement Option	Embedded C Pro*C Version 1.5 Sun ANSI C Version 1.0 Interactive SQL (FIPS			
	FIPS Sizing Defaults FIPS Flagger	Default) SQL*DBA Version 7.0			
	ORACLE RDBMS Version 6.0 NIST-91/7136 10/1/92	Embedded Ada Pro*Ada Version 1.4 Verdix Ada Version 6.0 Rev.3	Sun SPARCstation 1 Sun OS 4.1.1	Sun SPARCstation 300, 330; Sun SPARCserver 1, 1+, 330, 370, 390 Sun OS 4.1 - 4.1.1	2 Schema 11 Ada 14 C 9 Interactive
	Features Tested: Level 2 ANSI SQL	Embedded C Pro*C Version 1.4			FIPS Flagge
	FIPS Sizing Defaults	Sun C as bundled with Sun OS 4.1.1 Interactive SQL (FIPS			
		Default) SQL*DBA Version 6.0 SQL*Plus Version 3.0			
Unisys Corporation	SQLDB Mark 3.9 NIST-90/7011 1/1/93	Module COBOL A Series COBOL ANSI-85, Version 2.0	Unisys A15 Model H MCP/AS Mark 3.9	Unisys Micro A, A1, A2, A3, A4, A5, A6, A9, A10, A12, A15, A16, A17, A19	
	Features Tested: Level 2 ANSI SQL FIPS Sizing Defaults FIPS Flagger			MCP/AS Mark 3.9	
	SQLDB Mark 4.0 Pre-release NIST-91/7111 10/1/92	A Series COBOL ANSI-85,	Unisys A15 Model H MCP/AS Mark 4.0	Unisys Micro A, A1, A2, A3, A4, A5, A6, A9, A10, A12, A15, A16, A17, A19	
	Features Tested: Level 2 ANSI SQL	Mark 4.0		MCP/AS Mark 3.9 - 4.0	
	Integrity Enhancement Option FIPS Sizing Defaults FIPS Flagger				



4. GKS CONFORMANCE TESTING

4.1 FIPS GKS Standard

The Graphical Kernel System (GKS) is a two-dimensional graphics tool box which provides for the display and manipulation of pictures and graphical input from the operator. The purpose of GKS is to promote portability of graphics applications for use on a variety of graphics workstations. It provides a functional interface between an application program and a configuration of graphical devices. The interface is at such a level of abstraction that hardware peculiarities are shielded from the application program.

FIPS PUB 120-1, GKS, is the first Federal Information Processing Standard Publication (FIPS PUB) registered for computer graphics systems. In accordance with FIPS PUB 120-1, two-dimensional graphics toolbox packages acquired for Federal use after November 3, 1986 should implement FIPS GKS. Conformance testing of GKS implementations protects Federal investment by ensuring adherence to the graphics standard. FIPS PUB 120-1 requires that GKS implementations offered to Federal agencies be tested using the NIST Test Suite to ensure that a particular implementation meets the specifications of the FIPS. The GKS Validation Test Suite (Fortran) is available from:

Ms. Susan Sherrick National Institute of Standards and Technology Building 225, Room A266 Gaithersburg, MD 20899 (301) 975-3268

4.2 Organization of GKS Entries

The entries in the VPL for GKS implementations are presented as follows:

- The VENDOR ID column contains the name of the Vendor of the implementation.
- The GKS NAME column contains the name of the implementation, its version number, the VSR number, and the Expiry date of the certificate of validation.
- The HARDWARE & OP. SYSTEM column presents the hardware and operating system environment used during the validation.
- The GRAPHICS DEVICES column includes the graphics devices that were validated.
- The GKS LEVEL column indicates the level of GKS that was validated.
- The entries in the OTHER HW/OS column include other hardware and operating system environments in which the processor operates.
- The NONCONFORMITIES column indicates whether or not the GKS implementation conforms to the applicable FIPS in one or more cases as evidenced by the validation. The VSR should be reviewed for details of the nonconformities.

GKS PROCESSORS

VENDOR	GKS NAME EXPIRY & VSR #	HARDWARE & OP. SYSTEM	GRAPHICS DEVICES	GKS LEVEL	OTHER HW/OS	NONCON- FORMITIES
Advanced Technology Center	GRAFPAK-GKS Release 3.30.01	IBM RS/6000 Model 320	X Window System V11 PostScript Portrait Oriented Workstation	2C including GKSM Input, GKSM Output, and Workstation		Yes
	9/1/92	AIX 3.1		Independent Segment Storage		
	NIST/NCC-91/950					
Rutherford	RAL GKS V1.34	Sun 3/60	PostScript Portrait	2B including RAL		No
Appleton Laboratory	5/1/92	SUNOS	Oriented Workstation Sun 3/60 Monochrome	GKSM Input, RAL GKSM Output, and		
	NIST/NCC-91/949	Release 4.0.3	Workstation running SunView Tektronix 4014-1	Workstation Independent Segment Storage		

5. CGM CONFORMANCE TESTING

5.1 FIPS CGM Standards

The Computer Graphics Metafile (CGM) is a data interchange standard suitable for the storage and retrieval of picture information in a device independent manner. The purpose of the CGM is to facilitate the transfer of graphical information among different computer systems, devices and/or applications.

In accordance with FIPS 128 and Military Specification MIL-D-28003, the delivery of two-dimensional picture information to the government should be in the digital format of the CGM. Conformance testing verifies that the CGM is syntactically and semantically correct. The NIST CGM Test Suite tests the degree to which a binary encoded CGM complies with FIPS 128 and MIL-D-28003.

5.2 CGM Test Labs and Test Suite

CGM Validation Testing is available from the National Institute of Standards and Technology through its Computer Systems Laboratory (NIST/CSL).

The CGM Validation Test Software is based on CTS/Metacheck, version 2.06 and is available for purchase from:

Advanced Technology Center 22982 Mill Creek Drive Laguna Hills CA 92653 (714) 583-9119

5.3 Registered Report

A Registered Report of CGM Conformance is issued for those CGM files that have been tested and are in compliance with FIPS 128 and/or the Military Specification MIL-D-28003.

5.4 Validation Procedures and Test Suite

CGM files are tested in accordance with procedures described in the NIST <u>Procedures for CGM Testing (Trial Use Period)</u>. The current version of the Validation Test Software is Version 2.06. The validation procedures and information pack are available from:

National Institute of Standards and Technology (NIST) Computer Systems Laboratory CGM Test Service Room A266 Technology Building Gaithersburg, MD 20899 Telephone (301) 975-3265

5.5 CGM Entries

There are no entries for CGM at this time.

6. U.S. GOSIP TESTING PROGRAM REGISTER DATABASE SYSTEM

(GRD)

DESCRIPTION

The United States Government Open Systems Interconnection Profile (GOSIP) Testing Program was defined to assist Federal Agencies in assuring conformance to the GOSIP Standard. Testing for conformance to the Open Systems Interconnection (OSI) standards and for interoperability with other OSI implementations is available.

NISTIR 4594, "GOSIP Conformance and Interoperation Testing and Registration" establishes the framework for the establishment of registers for Test Suites, Test Systems (Means of Testing), Conformance Testing Laboratories, and Interoperability Testing Services.

U.S. GOSIP REGISTER DATABASE (GRD)

The U.S. GOSIP Register Database (GRD) is an online database facility developed by NIST. It provides up-to-date reference information for the following list of registers:

- 1. U.S. GOSIP Abstract Test Suites (ATS).
- 2. Assessed Means of Testing (MOT).
- 3. NVLAP Accredited Test Laboratories.
- 4. Conformance Tested GOSIP Products.
- 5. Interoperability Test Suites (ITS) for OSI Products.
- 6. Reference Entities for Means of Testing Assessment(s).
- 7. Interworking GOSIP Products.
- 8. Interoperability Test and Registration Services.

These registers are fully described in the GRD.

HOW TO ACCESS THE GOSIP REGISTER DATABASE (GRD)

The GRD can be accessed in two ways.

- 1. Using the Internet address 129.6.48.100 and logging on under the user-name "gosip-db". No password is necessary.
- 2. Via a modem by dialing the phone number (301) 869-0096. Log in using the user-name "gosip-db". No password is necessary. (Recommended modem configuration is 8-bits, 1 stop bit, no parity and baud rates of 1200 or 2400 speed.)

Currently, when using a modem, the GRD system allows for two simultaneous users only. If connection is not established please hang up and try again later.

Once connected the user will immediately be put into an introduction screen. After hitting the return key, a screen is presented to allow the user to select the appropriate terminal type. Enter the corresponding number from the list provided. After this the user is put into the main application menu. It is recommended to read the help option ("GRD Operation Information") first before performing any

U.S. GOSIP REGISTER DATABASE SYSTEM, Continued

queries. The "GRD Operation Information" option is option three of the main menu. Option four, "U.S. GOSIP Register Information", gives general information about the U.S. GOSIP Testing Program and the contents of the registers. Option five, "Register Directory", lists the registers and in turn allows the user to perform queries on the register contents.

For any questions, problems or comments dealing with the GRD or the U.S. GOSIP Testing Program please contact:

Ken Thomas
Joint Interoperability Test Center - TCBB
Fort Huachuca, AZ 85613-7020
(602) 538-5170
e-mail: C3A-TCB@huachuca-EMH2.army.mil

7. NIST POSIX CONFORMANCE TESTING

7.1 FIPS POSIX Standard

The National Institute of Standards and Technology through its Computer Systems Laboratory (NIST/CSL), has established a Conformance Testing policy for the Federal Information Standard for POSIX (FIPS 151-1). This standard is based on the IEEE POSIX Std 1003.1-1988. The testing model is made up of a Certification Authority, Accredited Testing Laboratories, Clients, and the official NIST POSIX Conformance Test Suite (NIST-PCTS). The Certification Authority is under the auspices of the Director of NIST/CSL. Testing labs are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), also an arm of NIST. The test suite is the NIST-PCTS:151-1 developed at NIST/CSL, and is based on the test assertions specified by the IEEE 1003.3 working group on test methods.

7.2 POSIX Test Procedures

There are eight POSIX test labs accredited by NVLAP to do POSIX testing. NVLAP accreditation is renewable after one year, and identifies the specific testing procedures which the lab is authorized to run. The labs provide testing and analysis services to their Clients, and may forward the final test results to NIST/CSL for evaluation and subsequent issuance of a Certificate of Validation by NIST/CSL. The POSIX Conformance testing procedures/requirements are published in the following documents:

- a. "NIST POSIX Testing Policy General Information" Version 4.0, January 22, 1992.
- b. "NIST POSIX Testing Policy Certificate of Validation Requirements, #1 FIPS 151-1."

7.3 POSIX Test Suite

The NIST-PCTS is available from the National Technical Information Services (NTIS), 5825 Port Royal Road, Springfield, VA 22161, (703) 487-4650, for \$2500 in the U.S. It will be the base PCTS for the life of FIPS 151-1. Occasional fixes to the PCTS will be made by NIST/CSL. These "fixes" are automatically sent to the accredited labs, and will be available from NIST/CSL to all owners of the NIST/PCTS:151-1.

7.4 Validation Requirements

An accredited lab may submit a "clean" test report to NIST/CSL for evaluation in anticipation of a Certificate of Validation being issued. "Clean" implies no test assertion failures. However, recognizing that errors could exist in either the FIPS 151-1, the test assertions in IEEE 1003.3, or in the NIST-PCTS, any "failures" must be resolved to acceptable "Resolved Test Codes" as listed in the NIST test method documentation. The Certificate of Validation will confirm that the stated product has been tested using the official NIST-PCTS and that the test results have been validated by NIST/CSL. It will contain information on the product tested, the hardware/software environment used for testing, supplier, testing lab, and the PCTS. Additional information on conditional features supported, configuration details, and resolved test codes will be available from NIST/CSL as referenced by a file number on the Certificate. These certificates will be issued by NIST/CSL through the testing lab. Fees for services by the testing labs will be established by the respective labs.

7.5 NIST POSIX TESTING LABORATORIES

The National Voluntary Laboratory Accreditation Program (NVLAP) has accredited the following laboratories to test computer operating system interfaces for conformance with the Federal Information Processing Standard 151-1 (FIPS 151-1) using the NIST POSIX Conformance Test Suite (NIST-PCTS:151-1). Only accredited laboratories may submit test reports to NIST/CSL for validation.

Applications Software Incorporated

1656 Gryc Court

Mendota Heights, MN 55118

Contact: Mr. Robin Ehrlich

Phone: 612-456-5364

Contact: Mr. Georges Chardon Phone: (33) 76 39 75 93

BULL SA / Laboratoire POSIX

1 rue de Provence / BP208

38432 ECHIROLLES CEDEX (France)

Contact: Mr. James Hegerty

Phone: 703-631-6770

DataFocus Incorporated

12500 Fair Lakes Circle, Suite 400

Fairfax, VA 22033-3831

Contact: Ms. Linda DeYoung

Phone: 508-256-6600

Hewlett-Packard Company

Hewlett-Packard POSIX Conformance Test Center

250 Apollo Drive

Chelmsford, MA 01824

Contact: Mr. Bruce Weiner

Phone: 415-323-9000

Mindcraft, Inc.

410 Cambridge Avenue

Palo Alto, CA 94306

Contact: Ms. A. E. J. Pink Phone: +44 61 228-6333

National Computing Centre Ltd
Oxford Road

Manchester, M1 7ED, ENGLAND

Contact: Mr. Barry E. Hedquist Phone: 408-748-2900

PERENNIAL

4699 Old Ironsides Drive, Suite 210

Santa Clara, CA 95054

Contact: Ms. Barb Moran

Phone: 510-420-6400

UniSoft Corporation

6121 Hollis Street Emeryville, CA 94608-2092

7.6 NIST POSIX VALIDATED PRODUCTS

The following products have been tested by an Accredited POSIX Testing Laboratory (APTL) using the official National Institute of Standards and Technology POSIX Conformance Test Suite (NIST-PCTS:151-1) for the Federal Information Processing Standards Publication 151-1 (FIPS PUB 151-1). A Certificate of Validation has been issued by NIST/CSL.

Additional information is available from NIST/CSL on conditional features supported, configuration details, and resolved test codes (if appropriate).

PRODUCT SUPPLIERS REFERENCE FILE #

Apple Computer Inc. APP2482, APP3355, APP7224, APP7235, APP8616

AT&T ATT1566

Control Data Corporation CDC1101, CDC5574, CDC5750 CONVEX Computer Corporation CON0202, CON2551, CON6027

Data General Corporation DGC2542, DGC8016, DGC8703, DGC9391

Digital Equipment Corporation DEC0638, DEC5794, DEC7917, DEC9418, DEC9672

Encore Computer Corporation ENC6897

ESIX/Everex Systems, Inc. EVR0901, EVR9749

Harris Corporation HAR5240

Hewlett-Packard Company HPC2540, HPC6391, HPC9185

Interactive Systems Corp. INT5154
Intergraph Corporation INT4675

International Business Machines Inc. IBM0320, IBM0458, IBM1344, IBM2592, IBM3697

Modular Computer Systems, Inc. MOD4817

Pyramid Technology Corporation PYR1271, PYR9863

Santa Cruz Operation Inc. SCO5199, SCO6748, SCO9875

Sequent Computer Systems Inc. SEC8754

SunSoft, Inc. SUN6635, SUN9763

Unisys Corporation UNI0505, UNI1798, UNI5711, UNI9063, UNI9080

UNIX System Laboratories USL3610

SYSTEM SUPPLIERS REFERENCE FILE #

AGI Computer, Inc. EVR0901

Apple Computer Inc. APP2482, APP3355, APP7224, APP7235, APP8616

AT&T ATT1566, USL3610

Compaq Computer Corporation INT5154

Control Data Corporation CDC1101, CDC5574, CDC5750 CONVEX Computer Corporation CON0202, CON2551, CON6027

Data General Corporation DGC2542, DGC8016, DGC8703, DGC9391, SCO6748 Digital Equipment Corporation DEC0638, DEC5794, DEC7917, DEC9418, DEC9672

Encore Computer Corporation ENC6897 ESIX/Everex Systems, Inc. EVR9749 Harris Corporation HAR5240

Hewlett-Packard Company HPC2540, HPC6391, HPC9185

Intergraph Corporation INT4675

International Business Machines Inc. IBM0320, IBM0458, IBM1344, IBM2592, IBM3697

Modular Computer Systems, Inc. MOD4817

Pyramid Technology Corporation PYR1271, PYR9863

Sequent Computer Systems Inc. SEC8754

Sun Microsystems Computer Corp., Inc. SUN6635, SUN9763

Unisys Corporation UNI0505, UNI1798, UNI5711, UNI9063, UNI9080, SCO9875

Zenith Data Systems SCO5199

Reference File #: APP2482

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 2.0.1 Release: 01/30/1991

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Ilfx

C Compiler: A/UX native C compiler (cc) Version: 1.21 Release: 01/13/1991

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: APP3355

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 3.0 Release: March 9, 1992

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Quadra 700

C Compiler: A/UX native C compiler (cc) Version: 1.23 Release: February 9, 1992

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 04/16/92

Reference File #: APP7224

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 3.0 Release: March 9, 1992

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Quadra 950

C Compiler: A/UX native C compiler (cc) Version: 1.23 Release: February 9, 1992

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/14/92

Reference File #: APP7235

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 2.0.1 Release: 01/30/1991

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Ilci

C Compiler: A/UX native C compiler (cc) Version: 1.21 Release: 01/13/1991

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: APP8616

Product Supplier: Apple Computer Inc.

Product Tested: A/UX Version: 2.0.1 Release: 01/30/1991

System Supplier: Apple Computer Inc.

System Hardware: Macintosh Model: Ilsi

C Compiler: A/UX native C compiler (cc) Version: 1.21 Release: 01/13/1991

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: ATT1566

Product Supplier: AT&T

Product Tested: AT&T UNIX System V Version: Release 4 Release: 4.0.3

System Supplier: AT&T

System Hardware: AT&T 3B2 R3 Series Model: 3B2/600 GR C Compiler: AT&T 3B2/RISC C Development System Version: 1.0

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0343 DataFocus Incorporated Date Issued: 11/06/91

Reference File #: CDC1101

Product Supplier: Control Data Corporation

Product Tested: EP/IX Version: 1.4.2 Release: November 27, 1991

System Supplier: Control Data Corporation

System Hardware: Control Data 4000 Model: 4680MP

C Compiler: EP/IX C Language RISCompiler Version: C 2.11 Release: July 1990

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0356 Applications Software Incorporated Date Issued: 01/29/92

Reference File #: CDC5574

Product Supplier: Control Data Corporation

Product Tested: EP/IX Version: 1.3.1 Release: 03/21/1991

System Supplier: Control Data Corporation

System Hardware: Control Data 4000 Model: 4330-250

C Compiler: EP/IX C Language RISCompiler Version: 2.11 Release: July 1990

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0356 Applications Software Incorporated Date Issued: 05/24/91

Reference File #: CDC5750

Product Supplier: Control Data Corporation

Product Tested: EP/IX Version: 1.3.1 Release: 03/21/1991

System Supplier: Control Data Corporation

System Hardware: Control Data 4000 Model: 4680

C Compiler: EP/IX C Language RISCompiler Version: 2.11 Release: 07/16/1990

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0356 Applications Software Incorporated Date Issued: 05/24/91

Reference File #: CON0202

Product Supplier: CONVEX Computer Corporation

Product Tested: ConvexOS Version: 10.1 Release: C200 Series

System Supplier: CONVEX Computer Corporation

System Hardware: C2 Model: C220

C Compiler: CONVEX C Version: 4.3.2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: CON2551

Product Supplier: CONVEX Computer Corporation

Product Tested: ConvexOS Version: 10.1 Release: C3800 Series

System Supplier: CONVEX Computer Corporation System Hardware: C38 Model: C3810

C Compiler: CONVEX C Version: 4.3.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: CON6027

Product Supplier: CONVEX Computer Corporation

Product Tested: ConvexOS Version: 10.1 Release: C3400 Series

System Supplier: CONVEX Computer Corporation System Hardware: C34 Model: C3440

C Compiler: CONVEX C Version: 4.3.2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/11/92

Reference File #: DEC0638

Product Supplier: Digital Equipment Corporation

Product Tested: VMS Version: 5 Release: 5 (with VMS POSIX, version 1.0)

System Supplier: Digital Equipment Corporation

System Hardware: VAXstation Model: 3100 M76

C Compiler: VAX C Version: 3 Release: 2 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0343 DataFocus Incorporated Date Issued: 01/29/92

Reference File #: DEC5794

Product Supplier: Digital Equipment Corporation

Product Tested: ULTRIX Version: 4.2 Release: May 31, 1991

System Supplier: Digital Equipment Corporation

System Hardware: VAXstation II Model: GPX

C Compiler: pcc Version: 4.2

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 06/17/91

Reference File #: DEC7917

Product Supplier: Digital Equipment Corporation

Product Tested: the ULTRIX Operating System Version: 4.2A Release: November 18, 1991

System Supplier: Digital Equipment Corporation
System Hardware: DECstation Model: 3100

C Compiler: MIPS C Compiler Version: 2.10 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 12/06/91

Reference File #: DEC9418

Product Supplier: Digital Equipment Corporation

Product Tested: ULTRIX Version: 4.2 Release: May 31, 1991

System Supplier: Digital Equipment Corporation System Hardware: DECstation Model: 3100

C Compiler: MIPS C Compiler Version: 2.10 PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 06/17/91

Reference File #: DEC9672

Product Supplier: Digital Equipment Corporation

Product Tested: The ULTRIX Operating System Version: 4.2A Release: December 1991

System Supplier: Digital Equipment Corporation

System Hardware: DECstation Model: 5000/200

C Compiler: MIPS C Compiler Version: 2.10 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 02/12/92

Reference File #: DGC2542

Product Supplier: Data General Corporation Product Tested: DG/UX Version: 5.4

System Supplier: Data General Corporation

System Hardware: AViion 5000 Model: AV/5240

C Compiler: GNU C Compiler for AViiON Systems Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC8016

Product Supplier: Data General Corporation
Product Tested: DG/UX Version: 5.4

System Supplier: Data General Corporation

System Hardware: AViion 400/4000 Model: AV/4100 C Compiler: GNU C Compiler for AViiON Systems Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC8703

Product Supplier: Data General Corporation Product Tested: DG/UX Version: 5.4 System Supplier: Data General Corporation

System Hardware: AViion 400/4000 Model: AV/412 C Compiler: GNU C Compiler for AViiON Systems Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: DGC9391

Product Supplier: Data General Corporation Product Tested: DG/UX Version: 4.32 System Supplier: Data General Corporation

System Hardware: AViion AV/400/4000 Model: AV/410 C Compiler: GNU C Compiler for AViion Sys Version: 1.37.23

PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: ENC6897

Product Supplier: Encore Computer Corporation

Product Tested: UMAX V Release: 3.0.6

System Supplier: Encore Computer Corporation

System Hardware: 91 Series Model: 91-02427 C Compiler: Green Hills Software, Inc. C Release: 1.1

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0345 UniSoft Corporation Date Issued: 3/12/92

Reference File #: EVR0901

Product Supplier: ESIX/Everex Systems, Inc.

Product Tested: ESIX System V Release 4 Version: 4 Release: 4.0

System Supplier: AGI Computer, Inc.

System Hardware: AGI Model: 486/33 C Compiler: ESIX ANSI C Compiler Version: 5.0

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: EVR9749

Product Supplier: ESIX/Everex Systems, Inc.

Product Tested: ESIX System V Release 4 Version: 4 Release: 4.0

System Supplier: ESIX/Everex Systems, Inc.

System Hardware: Everex Model: 3000S 386/33

C Compiler: ESIX ANSI C Compiler Version: 5.0

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: HAR5240

Product Supplier: Harris Corporation

Product Tested: CX/UX Release: 5.3

System Supplier: Harris Corporation, Computer Systems Division

System Hardware: Night Hawk Model: HN4802

C Compiler: Harris C Compiler Release: 5.3 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 12/16/91

Reference File #: HPC2540

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.07 Release: December 1991

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 700 Model: 720

C Compiler: HP C Compiler Version: A 08.71 Release: December 1991

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center Date Issued: 01/29/92

Reference File #: HPC6391

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8.00 with PHCO 0800 (Patch)

Release: January 1991, January 1992 (Patch)

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 400 Model: 400S

C Compiler: HP C Compiler Version: B 08.00 Release: December 1991

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center Date Issued: 04/17/92

Reference File #: HPC9185

Product Supplier: Hewlett-Packard Company

Product Tested: HP-UX Version: 8 Release: 5/6/91

System Supplier: Hewlett-Packard Company

System Hardware: HP9000 Series 800 Model: 835 C Compiler: HP C Compiler Version: A 08.17 Release: 5/6/91

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0346 Hewlett-Packard POSIX Conformance Test Center Date Issued: 12/18/91

Reference File #: IBM0320

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version 3 for RISC System/6000 Version: 3 Release: 2

System Supplier: International Business Machines Inc. System Hardware: RISC System/6000 Model: 220

C Compiler: xlc Version: 1 Release: 2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/25/92

Reference File #: IBM0458

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version 3 for RISC System/6000 Version: 3 Release: 2

System Supplier: International Business Machines Inc.

System Hardware: RISC System/6000 Model: 530H

C Compiler: xlc Version: 1 Release: 2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/25/92

Reference File #: IBM1344

Product Supplier: International Business Machines Inc.
Product Tested: AIX Version: 3 Release: 1
System Supplier: International Business Machines Inc.
System Hardware: RISC System/6000 Model: 320

C Compiler: xlc Version: 3 Release: 1 PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: IBM2592

Product Supplier: International Business Machines Inc.
Product Tested: AIX Version: 3 Release: 1
System Supplier: International Business Machines Inc.
System Hardware: RISC System/6000 Model: 530
C Compiler: xlc Version: 3 Release: 1

C Compiler: xlc Version: 3 Release: 1 PCTS: 151-1 Version: 1.1 - 04/26/91

APTL: 0342 Mindcraft, Inc. Date Issued: 05/24/91

Reference File #: IBM3697

Product Supplier: International Business Machines Inc.

Product Tested: AIX Version 3 for RISC System/6000 Version: 3 Release: 2

System Supplier: International Business Machines Inc.
System Hardware: RISC System/6000 Model: 320

C Compiler: xlc Version: 1 Release: 2 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/25/92

Reference File #: INT4675

Product Supplier: Intergraph Corporation

Product Tested: CLIX Version: 06.02.01 Release: 3.1

System Supplier: Intergraph Corporation

System Hardware: Intergraph 6400 Series Workstation Model: 6450

C Compiler: CLIPPER Advanced Optimizing C Compiler Version: 06.00.01.43 Release: 28-JAN-1992

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: INT5154

Product Supplier: Interactive Systems Corp.

Product Tested: Interactive UNIX Operating System Version: 3.0 Release: 3.2

System Supplier: Compaq Computer Corporation

System Hardware: Compaq Model: System Pro

C Compiler: Interactive UNIX Software Development System Version: 3.0

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0345 UniSoft Corporation Date Issued: 10/16/91

NIST POSIX VALIDATED PRODUCTS. Continued

Reference File #: MOD4817

Product Supplier: Modular Computer Systems, Inc.

Product Tested: REAL/IX Version: V.3 Release: D.0

System Supplier: Modular Computer Systems, Inc.

System Hardware: REAL/STAR Model: 1000

C Compiler: GNU C Compiler for REAL/IX Systems Version: 1.37

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/05/92

Reference File #: PYR1271

Product Supplier: Pyramid Technology Corporation

Product Tested: OSx Version: 5.1a-92a023 Release: 0422s

System Supplier: Pyramid Technology Corporation System Hardware: MIServer Model: MIS-2T

C Compiler: att cc Version: 5.1 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: PYR9863

Product Supplier: Pyramid Technology Corporation

Product Tested: OSx Version: 5.1a Release: 0318t

System Supplier: Pyramid Technology Corporation

System Hardware: MIServer Model: MIS-4T

C Compiler: att cc Version: 5.1 PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0343 DataFocus Incorporated Date Issued: 05/28/92

Reference File #: SCO5199

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: 3.2

System Supplier: Zenith Data Systems

System Hardware: Zenith Data Systems Supersport Laptop Model: Supersport SX

C Compiler: Microsoft C Version: 5.1 PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0343 DataFocus Incorporated Date Issued: 09/17/91

Reference File #: SCO6748

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: 3.2 Release: 2

System Supplier: Data General Corporation

System Hardware: Walkabout/SX Model: G2763 C Compiler: Microsoft C Optimizing Compiler Version: 5.1

PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0342 Mindcraft, Inc. Date Issued: 09/10/91

Reference File #: SCO9875

Product Supplier: Santa Cruz Operation Inc.

Product Tested: SCO UNIX System V/386 Version: 3.2

System Supplier: UNISYS Corporation

System Hardware: PW² Advantage 3000 Series Model: 3256

C Compiler: Microsoft C Version: 5.1 PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0343 DataFocus Incorporated Date Issued: 11/01/91

Reference File #: SEC8754

Product Supplier: Sequent Computer Systems Inc.

Product Tested: DYNIX/ptx Operating System Version: 1.3.0

System Supplier: Sequent Computer Systems Inc.

System Hardware: Symmetry Series II Model: S27

C Compiler: C Tools Version: 1.12p PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0345 UniSoft Corporation Date Issued: 12/09/91

NIST POSIX VALIDATED PRODUCTS, Continued

Reference File #: SUN6635

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 1.0.1 Release: PC System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCserver 690 Model: 140

C Compiler: Solaris C Compiler Version: 1.0.1 Release: December 4, 1991

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/19/92

Reference File #: SUN9763

Product Supplier: SunSoft, Inc.

Product Tested: Solaris Version: 1.0.1 Release: PC System Supplier: Sun Microsystems Computer Corporation, Inc. System Hardware: SPARCstation 2 Model: GX

C Compiler: Solaris C Compiler Version: 1.0.1 Release: December 4, 1991

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 02/19/92

Reference File #: UNI0505

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: Revision 1.0.2

System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/15

C Compiler: UNIX System V Release 4 Standard C Development Environment Version: 1.0.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 04/30/92

Reference File #: UNI1798

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: Revision 1.0.2

System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/65

C Compiler: UNIX System V Release 4 Standard C Development Environment Version: 1.0.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/12/92

Reference File #: UNI5711

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: Revision 1.0.2

System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/60

C Compiler: UNIX System V Release 4 Standard C Development Environment Version: 1.0.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/12/92

Reference File #: UNI9063

Product Supplier: Unisys Corporation

Product Tested: UNIX System V Release 4 Version: Revision 1.0.2

System Supplier: Unisys Corporation

System Hardware: Unisys U 6000 Series Model: U 6000/35

C Compiler: UNIX System V Release 4 Standard C Development Environment Version: 1.0.2

PCTS: 151-1 Version: 1.1 - 01/22/92

APTL: 0342 Mindcraft, Inc. Date Issued: 05/12/92

Reference File #: UNI9080

Product Supplier: Unisys Corporation

Product Tested: CTOS II Version: 3 Release: 3

System Supplier: Unisys Corporation

System Hardware: Unisys B-Series Model: NGEN

C Compiler: Microsoft C Version: 6.0 PCTS: 151-1 Version: 1.1 - 07/01/91

APTL: 0343 DataFocus Incorporated Date Issued: 09/17/91

NIST POSIX VALIDATED PRODUCTS, Continued

Reference File #: USL3610

Product Supplier: UNIX System Laboratories, Inc.

Product Tested: UNIX System V Release 4 for the Intel386 Architecture Version: 4 Release: July 1991

System Supplier: AT&T

System Hardware: AT&T 6386/25 WGS Model: CPU 311 PC3B C Compiler: Standard C Development Environment Version: Issue 5

PCTS: 151-1 Version: 1.1 - 09/11/91

APTL: 0342 Mindcraft, Inc. Date Issued: 12/12/91

For further information on the NIST/CSL POSIX validation program contact Martha M. Gray, Computer Systems Laboratory, B266 Technology Bldg., NIST, Gaithersburg, MD 20899. Telephone: 301-975-3276, fax: 301-590-0932, e-mail: gray@swe.ncsl.nist.gov.

This register is also available on an electronic mail (email) file server system. To use the service, you must be able to send and receive email via the Internet. For most email systems, you will send an email message (mail posix@nist.gov). The first line of the message should contain a command to send register. After you issue your send command and a carriage return, the next line should simply have a period and a carriage return, signalling the end of your email message. This register will be returned via email to your email address.



8. COMPUTER SECURITY TESTING

8.1 Cryptographic Standards

The lists in Sections 8.6, 8.7 and 8.8 provide technical information about products that have been validated as conforming to the following computer security FIPS:

- a. Data Encryption Standard (DES), FIPS PUB 46-1,
- b. Message Authentication Code (MAC), FIPS PUB 113, and
- c. Key Management Using ANSI X9.17, FIPS PUB 171.

8.2 Data Encryption Standard Validation Tests

FIPS PUB 46-1 specifies a cryptographic algorithm that converts plaintext to ciphertext using a 56-bit key. Testing procedures for the validation of devices as conforming to FIPS PUB 46-1 are described in the NBS Special Publication 500-20, <u>Validating the Correctness of Hardware Implementations of the NBS Data Encryption Standard</u>. The validation of a device is performed by running the Monte Carlo test described in the publication. The Monte-Carlo test consists of eight million encryptions and four million decryptions, with two encryptions and one decryption making up a single test. The test is designed to use the Electronic Codebook Mode (ECB) of DES. Although the actual test described in NBS Special Publication 500-20 is the same test used to validate devices today, the procedures for administering the test have changed. Currently, the test is performed by the vendor using initial values supplied by NIST. The vendor uses the supplied information to run the Monte-Carlo test and sends the results to NIST.

8.3 Message Authentication Code (MAC) Validation System

FIPS PUB 113 specifies a Data Encryption Algorithm which may be used to detect unauthorized intentional and accidental modifications to data. This process is known as data authentication. The algorithm is based on DES and is used to authenticate an entire binary message. FIPS PUB 113 is compatible with ANSI X9.9 which provides methods for authenticating an entire binary message as well as all or parts of a message which are in a coded character format. Procedures for the validation of products which implement FIPS PUB 113 and ANSI X9.9 are described in NBS Special Publication 500-156, Message Authentication Code (MAC) Validation System: Requirements and Procedures.

8.4 Key Management Validation System (KMVS)

FIPS PUB 171 adopts ANSI X9.17 for Federal Government use. ANSI X9.17, <u>Financial Institution Key Management (Wholesale)</u>, provides procedures and protocols for the secure generation, distribution, storage, entry, use and destruction of symmetric cryptographic keying material (e.g., DES). It provides key management solutions for a variety of operational environments, and as such, ANSI X9.17 contains a number of options. FIPS PUB 171 specifies a particular set of options whenever keying material is distributed using the protocols of ANSI X9.17. Procedures for the validation of products which conform to a subset of the options selected in FIPS PUB 171 are described in the <u>Key Management Validation System</u>: <u>Point-to-Point Validation System</u> document which is available from the Manager of the Security Group (see Section 8.5).

8.5 General

8.5.1 Request for Validation.

To validate a product, a vendor should send a formal request for validation which includes a clear indication of the product to be tested. The request must also include the name, address, and telephone number of the person within the vendor's organization who will be responsible for the validation testing. The request should be sent to:

Manager, Security Technology Group Computer Security Division National Computer Systems Laboratory Building 225, Room A216 National Institute of Standards and Technology Gaithersburg, MD 20899 Telephone (301) 975-2920

8.5.2 Information about Validated Products.

It should be noted that the purpose of the following lists (see Sections 8.6, 8.7 and 8.8) is to provide technical information about products that have been validated as conforming to the FIPS Standards listed in Section 8.1. NIST has made every attempt to provide complete and accurate information about the products described in the following lists. However, due to the possibility of changes made within individual companies, NIST cannot guarantee that this document reflects the current status of each product.

8.5.3 Validation Documentation.

Copies of the above FIPS and Special Publications are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. The KMVS validation requirements document discussed in Section 8.4 can be obtained by contacting the Manager of the Security Technology Group at the above address.

8.6 DES Validated Devices

NOTE: The purpose of this document is to provide technical information about devices that have been validated as conforming to Federal Information Processing Standard Publication 46-1, Data Encryption Standard. The National Institute of Standards and Technology (NIST) has made every attempt to provide complete and accurate information about the devices described in this document. However, due to the possibility of changes made within individual companies, NIST cannot guarantee that this document reflects the current status of each product.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
ADT Security Systems 2560 Huntington Avenue Fourth Floor Alexandria, VA 22303 Hal Marriott (703) 960-8548	ADT Universal Communicator	10/17/90	Chip is an on board component for products in the High Security Intrusion Detection System. System has integrated key management capabilities.
Advanced Micro Devices, Inc. 4115 Freiderich Lane Mail Stop 135 Austin, TX 78744 Patrick Soheili (408) 749-2161	AmZ8068	1/28/81	One 40-pin DIP package; n-channel Si-gate technology; ECB, CBC and 8-bit CFB modes; separate ports for key input, clear data and enciphered data; concurrent input, output and ciphering activities; external DMA control; interfaces with AmZ8000 CPU bus directly, and with the 2900, 8080, 8085 and 8048 families with minimum throughput greater than 1 Mbytes per second; greater than 1 Mbytes per second.
	AM 9568	2/28/84	N-channel silicon gate LSI product containing the circuitry necessary to encrypt and decrypt data; can be used in terminals dedicated controllers, communication concentrators, and peripheral task processors in general processor systems; can be used in CF, ECB, or CBC operating modes; separate ports for key input, clear data, and enciphered data enhanced security; interface directly to the IAPX86, 88 bus; interfaces with 2900 and 8051 families with minimal external logic.
American Telephone and Telegraph Company (AT&T) 6612 E. 75th Street P.O. Box 1008 Indianapolis, IN 46206 Ken Zempol (908) 658-6870	AT&T Smart Card Version 2.11/DES	5/3/91	Card is part of a smart card based Computer Security System (CSS). The card is carried by an authorized user and permits the user to gain access to host computer systems that are protected by the CSS.
	AT&T Smart Card Version 3.0/DES (5E1)	7/19/91	This version of the AT&T Smart Card is designed to closely follow developments in the international standards arena in areas of card communication protocols, commands and file structures. It is a general purpose smart card that supports multiple applications and uses the DES as a basic part of its operating system.
Arkansas Systems Inc. 8901 Kanis Road Little Rock, AR 72205-6498 David H. Bishop (501) 227-8471	DES-MATE	7/6/89	Provides data encryption for messages sent and received on-line between and ATM/EFT Network switch processor and an IBM host participant in that network. DES key management is automatic and under system control.
AT&T Whippany Road Whippany, N.J. 07981 William Oeschger (201) 898-1198	AT&T T7000A Digital Encryption Processor	4/22/86	Manufactured using CMOS technology; 40-pin DIP; encryption modes include ECB, CBC, CFB, and OFB; throughput 1.882 Mbytes/second on-chip RAM and ROM program memory.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
AT&T Bell Laboratories 25 Lindsley Drive Room 2B-309 Morristown, N.J. 07960 William Oeschger (201) 898-1198	DEP229ER (WE229ER)	9/6/83	3.5 micron NMOS technology; 40-pin DIP; encryption modes - ECB, CBC, OFB, CFB1, CFB8, CFB64; Throughput rate of 117K ciphering operation/second.
Collins Telecommunications Collins Defense Communications 350 Collins Road, NE Mail Stop 120-105	765-5914-001	10/15/77	pMOS chip with 40 usec algorithm execution time; chip has approximately a 50 nsec state change; can perform I/O functions while the chip is in operation; part of network stand-alone encryptor.
Cedar Rapids, lowa 52498 Jim Perkins (319) 395-5773	Voice Privacy Device VP430	10/6/81	Imbedded encryption device for commercial hand held communications devices.
Computer Elektronik Infosys of America, Inc. 512-A Herndon Parkway Herndon, VA 22070 A. Mark Brown (703) 435-3800	SuperCrypt	7/24/91	Chip designed for high speed (12 Megabytes/sec data rates) encryption and decryption. ECB, CBC, CFB and OFB modes of DES supported as well as MAC generation. Available as a 120 Pin Flat Pack.
The Exchange 15395 SE 30th Place Bellevue, WA 98007 Patricia Lenti-Crane (206)644-7000	EXCRYPT DEB-64-KM (originally EXCLUDE DEB-64-KM)	1/26/89	Encrypts and decrypts data; generates random keys; supports up to six security processor boards that can be run in parallel to enhance throughput; has storage capacity for up to 4000 DES keys; developed for secure financial transactions.
Front Line Software P.O. Box 217 Lowell, MA 01853 William Graham (617) 452-3352	726-8064 PROM Device	12/1/86	4 K EPROM to be used with Intel IPAX family of microprocessors including all models of the IBM PC family; all modes of DES supported.
GEMPLUS CARD INTERNATIONAL 6290 Montrose Road Rockville, MD 20852 Gilles Lisimaque (301) 770-1558	MCOS16K EEPROM/DES	3/18/91	A multi-application smart card which complies with the ISO standard 7816 (parts 1, 2, and 3) for Integrated Circuit cards with contacts.
General Electric Company Mountain View Road Lynchburg, VA 24502 Jim Elder (804) 948-6187	Part Number 19B801375	6/28/85	The GE DES IC is a microprocessor controlled, low speed asynchronous CMOS IC using DES. Intended to provide secure voice in commercial grade mobile radio applications.
IBM Corporation Federal Systems Division WK4/988 P.O. Box 100 Kingston, NY 12401 Robert Elander (914) 385-6692	4402182	11/1/77	This card used in terminal equipment; the chip uses technology with PLA control to implement CBC;
	P/N 8270094 using DES Chi P/N 5898057 (originally 8269206)	o 8/25/78	This card is used in 3845 and 3846 equipment for 8-bit CFB.
	Two TTL cards - 8632242 and 8679176	9/21/79	Will operate at least at the 1.5 Mbytes 360 channel rate; card set is used in the 3848 cryptographic unit; uses "Emerald-5" technology.

MANUFACTURER ADDRESS	PRODUCT V	ALIDATION DATE	DESCRIPTION
IBM Corporation 1001 W.T. Harris Blvd. West Charlotte, NC 28257 William Rohland (704) 594-8250	4745 Security Interface Unit and the Personal Security Card	10/10/90 d	Devices are used in a transaction security system to protect the privacy and integrity of data using a common cryptographic interface. The security interface unit communicates with the Personal Security Card and the cryptographic adaptor, if present. The Personal Security Card is an integrated-circuit chip card that contains a single chip security processor.
Intel 1900 Praire City Road Folsom, CA 95630 Joe Dragony	8294	1/3/78	Algorithm is microcode which is burned into a 1 Kbyte ROM on a 5 volt, 40-pin chip driven by a 8042 microprocessor.
(916) 351-5250	8294A	6/20/82	Same as the 8294 except for a maximum data transfer rate of 400 bytes per second.
John E. Holt & Associates 2714 Key Boulevard Arlington, VA 22201 John Holt (703) 524-2923	Krypton Firmware	2/12/86	ROM chips for the standard IBM PC family include eight 3722 chips, four 2764 chips and one 27256 chip; 1024-bit CBC chaining; encryption speed dependent on clock of PC; ROM can plug directly into ROM slot.
Lexicon ICOT Corporation 3801 Zanker Road P.O. Box 5143 San Jose, CA 95150-5143 Bob Lynch (408) 433-3300	LEX-POS (Model 600)	11/28/84	A Personal Identification Number (PIN) entry device; used in conjunction with financial transaction devices, 16 key keyboard, 20 character display, RS-232 compatible, Lexicon sold LEX-POS to ICOT Corporation.
LSI Logic/Dataco AS Smedeholm 12-14 DK-2730 Herlev Denmark Jens Kjelsbak 45 44 53 01 00	Dataco L5A4043 2030025402	1/12/90	Custom DES IC was manufacturer by LSI Logic for Dataco. The DES chip is designed for optional use in ScaNet local area network products.
Matsushita Electronic Component High Frequency Products Division One Pansonic Way Secaucus, NJ 07094 Dursun Sakarya (201) 348-7767		3/13/91	Card is designed to be a high security external storage media housing an 8 bit CPU and 64 Kbit EEPROM.
Micro Card Technologies, Inc. 14070 Proton Road Dallas, TX 75244 Jeff Lang (214) 788-4055	Micro Card TB100 Integrated Circuit Card	9/19/90	A multi-application integrated circuit card which can simultaneously support several application data files. Ciphering and deciphering functions may be used to encrypt or decrypt external messages using DES.
Morse Security Group, Inc. 12960 Bradley Avenue Sylmar, CA 91342-0128 Nalin Chheda (800) 423-5669 (818) 367-5951	TRAP 5200 System	4/17/90	Touch response alarm processor system, including a receiver processor located in a data gathering center and a series of transponders located at remote locations, contains DES to produce encrypted data that flows along a communication path.
Motorola Microprocessor Products Division 6501 William Cannon Drive West Austin, TX 78735-8598 Don Ponder (512) 440-2956	MC6859 (originally MGD68NE)	2/11/80	Si-gate depletion mode, nMOS 24-pin DIP using single 5 volt power supply; implements ECB and CFB.

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
Newbridge Microsystems 603 March Road Kanata, Ontario Canada K2K 2M5 Tony Rosati (613) 592-0714	CA20C03A	4/10/91	A high performance WD20C03A compatible DES Data encryption processor with data transfer rates up to 4 Mbytes per second. Supports ECB and CBC; PLCC and PDIP packaging available.
Newnet S.A. Alsina 430 Buenos Aires 1087 Argentina Daniel Ramos 54 1 334 9732	Data Security Device (DSD 9612)	7/2/91	This device is based on an eight bit INTEL microprocessor with 8 Kbytes of EPROM. Transfer data at speeds of 1200 to 9600 bps and communicates with other devices via EIA RS-232-C ports.
Nixdorf Computer Corporation 168 Middlesex Turnpike Burlington, MA 01803 Kevin Madden (617) 890-3600	VEM Module	1/7/80	The plug-in module is used with the Nixdorf 8864 CPU for encrypting data transmission blocks and file protection; may be used in terminal applications in the financial community; uses TTL.
Racal-Milgo P.O. Box 407044 Ft. Lauderdale, FL 33340-7044 Richard Abbruscato (305) 476-6800	Datacryptor	1/7/80	Stand alone equipment with public key management remote distribution of master keys.
Rothenbuhler Engineering P.O. Box 708 2191 Rhodes Road Sedro Wolley, WA 98284-0708 Andrew Benson (206) 856-0836	CLS Series 5200 Encryption Module	3/19/91	The CLS Series 5200 Encryption Module is used in a system which communicates 8 channels of electronic security information between a client and a central monitoring facility.
Secur-Data Systems, Inc. Omega Center 7340 Executive Way, Suite R Frederick, MD 21701 Ronald Baum (301) 698-9955	DESPLEX	2/2/89	Used in a CF configuration as part of a firmware operating system for processing and transmission of alarm sensor data as well as receiving and annuclating dat at an alarm monitoring facility.
Texas Instruments, Inc. P.O. Box 1443, M/S 736 Houston, TX 77001 Mike Polen (713) 274-3635	TMS 99541	2/28/82	Preprogrammed TMS7020 8-bit single chip microprocessor; 40-pin DIP plastic package I/O pins are TTL compatible; master and active key registers;
UNIVAC P.O. Box 3942 St. Paul, MN 55165 Jim Nelson (612) 631-6728	End-End/Mass Storage Encryptor	1/29/80	Prototype device for testing purposes only;

MANUFACTURER ADDRESS	PRODUCT	VALIDATION DATE	DESCRIPTION
VLSI Technology, Inc. 8375 S. River Parkway Tempe, AZ 85284 R. Slusarczyk (602) 752-8574	VM007 - Data Encryption Processor	1/6/92	The VM007 Data Encryption Processor is a programmable integrated circuit that provides a complete cryptographic system on a single chip. It contains a hardware implementation of the DES, RISC-based sequencer, data storage registers, and ROM-based microprogram. It is designed to provide very high data and key processing rates (up to 190 Megabits per second), flexible I/O inter-facing, advanced security features and supports all DES modes of operation
Wells Fargo Security Products A Unit of Baker Protective Services 1010 North Glebe Road, Suite 680 Arlington, VA 22201 William Martin (703) 247-4250		5/26/89	The monitor panels are intended for use in a monitoring station of a proprietary intrusion detection alarm system.
Western Digital Corporation 2445 McCabe Way Irvine, CA 92714 Product Marketing Manager for Security Devices (714) 474-2033 X7853	WD-2001/WD2002	8/9/79	Uses si-gate nMOS, TTL compatible; ECB speeds of up to 40 Kbytes/second, 161 Kbytes/second and 242 Kbytes/second.
(11) 11 12000 11 000	WD20C03 DES Device	2/19/87	Uses si-gate CMOS, TTL compatible; ECB and CBC, speeds of up to 403 Kbytes/second, 645 Kbytes/second and 807 Kbytes/second in ECB.

8.7 Message Authentication Code (MAC) Implementations

	Vendor/Contact	Implementation	Validated Options
1.	ACS Communications Systems Inc. 480 Spring Park Place Suite 900 Herndon, VA 22070 Don Cole, (703) 471-0892	Personal Computer Security Module, PCSM-T May 16, 1986	BINARY OPTION (FIPS 113)
2.		Jones Futurex PC Encryption Board FRS PC MAC Processor October 28, 1986	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; ED- ITING
3.	Shannon Systems, Inc. Mountain View, CA Out of Business	Remote Crypto Facility Software Version 3.0 January 16, 1987	BINARY OPTION (FIPS 113)
4.	Codercard, Inc. Rights transferred to LITRONICS Information Systems on Sept. 12, 1990 - see entry 23. LITRONICS Information Systems 2950 Redhill Avenue Costa Mesa, CA 92626 Bob Gray, (714) 557-3444	Personal Computer Security Adaptor, CPS-300 Argus, Version 1 Software February 26, 1987	BINARY OPTION (FIPS 113) CODED CHARACTERS, ENTIRE MESSAGE, NO EDITING CODED CHARACTERS, ENTIRE MESSAGE, ED- ITING CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, NO EDITING CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, EXTRACTED MESSAGE
5.	Jones Futurex, Inc. 10933 Trade Center Drive Rancho Cordova, CA 95670 Don Thompson, (916) 635-3972	MAC-310 Message Authenticator February 27, 1987	BINARY OPTION (FIPS 113)
6.	Infomax Securities 6974 Sandpiper Place Carlsbad, CA 92009 David Howard, (619) 931-8787	Protecom Crypto Processor Protecom Device Driver & Utilities, Version 0.5 March 27, 1987	BINARY OPTION (FIPS 113)

	Vendor/Contact	Implementation	Validated Options
7.	Inter-Quest, Inc. 16508 E. Laser Drive Fountain Hills, AZ 85268 Charles Redding,	PORT-OF-ENTRY Computer Security System Vers. 1.1 (Software) May 8, 1987	BINARY OPTION (FIPS 113)
	(602) 948-2560		
8.	Infomax Securities 6974 Sandpiper Place Carlsbad, CA 92009	Protecom Crypto Processor Protecom Device Driver & Utilities, Version 0.6	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
	David Howard, (619) 931-8787	May 11, 1987	CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING
9.	Digitech Telecommunications, 342 Madison Avenue Suite 2010 New York, NY 10017 James J. McKeeff,	Softnet Software, Version 1 June 29, 1987	BINARY OPTION (FIPS 113)
	(212) 557-7230		
10.	Sytek, Inc. Rights transferred to AeT Research, Inc. on January 29, 1988 - see entry 17 AeT Research 675 North First Street Suite 800 San Jose, CA 95112 Linden Feldman, (408) 275-0820	MACbox June 30, 1987	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE

	Vendor/Contact	Implementation	Validated Options
11.	Inter-Quest, Inc. 16508 East Laser Drive Fountain Hills, AZ 85268 Charles Redding, (602) 948-2560	PORT-OF-ENTRY Computer Security System Vers 1.2 (Software) August 17, 1987	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING
12.	Racal-Guardata Limited Richmond Court 309 Fleet Road Fleet, Hampshire GU13 8BU England Paul Halliden, (252) 622144, England	PC Security Module, RGL 600 RGL 600 Host PC C Driver Software, Version: V1.01 November 20, 1987	BINARY OPTION (FIPS 113)
13.	The Chase Manhattan Bank, N.A. 1 Seaport Plaza 11th Floor New York, New York 10038 Bob Martian, (212) 797-4038	C-FIMAS 16 Software, Version 1.0 December 8, 1987	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING
14.	Atalla Corporation 2304 Zanker Road San Jose, CA 95131 Dale Hopkins, (408) 435-8850	Personal Computer Module, CPCM CPCM.HEX Software, Version OA 13-2043-01 January 11, 1988	BINARY OPTION (FIPS 113)
15.	GN Telematic, Inc. 46 Manning Road Billerica, MA 01821 Poul Hebsgaard, (617) 667-8644	safeMatic 2000, KB76-17527 January 12, 1988	BINARY OPTION (FIPS 113)

Vendor/Contact	Implementation	Validated Options
16. GN Telematic, Inc. 46 Manning Road Billerica, MA 01821 Poul Hebsgaard, (617) 667-8644	safeMatic 2000, KB76-17527 Coded Character Set Processing Software, Model KB77-17012, Version A February 3, 1988	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE
17. AeT Research 675 North First Street Suite 800 San Jose, CA 95112 Originally validated on June 30, 1987 as a Sytek, Inc device - see entry 10. Linden Feldman, (408) 275-0820	MACbox August 8, 1988	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE
18. Atalla Corporation 2304 Zanker Road San Jose, CA 95131 Dale Hopkins, (408) 435-8850	Personal Computer Module, MN-40-249 CPCM.HEX Software, Version OE 13-2043-00 September 26, 1988	BINARY OPTION (FIPS 113)
19. Cypher Communications Technology, Inc. 4520 East-West Highway Suite 550 Bethesda, MD 20814 Angel Bailey, (301) 652-6790	CYCOM SCI AX3 5.01, Version 10084002 February 2, 1989	BINARY OPTION (FIPS 113)

Vendor/Contact	Implementation	Validated Options
20. Dial-Guard 55 Koch Road/PO Box 70 Corte Madera, CA 94925 Shun-Hwa Chang or	01-103, Version 2.0 Rev. 0 March 6, 1989	BINARY OPTION (FIPS 113)
Trone Miller, (415) 927-22. 21. Okiok Data 3945 St. Martin Laval, Quebec, Canada H7T 1B7 Claude Vigeant, (514) 681-1681	RAC/M FAS-PACK, Version 1.0 April 24, 1989	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE
22. Racal-Guardata, Inc 480 Spring Park Place Suite 900 Herndon, VA 22070 Brian Bucholz, (703) 471-0892	X9 Crypto Server June 1, 1990	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE ELEMENTS; EDITING
23. LITRONIC Information Systems 2950 Redhill Avenue Costa Mesa, CA 92626 Rights transferred on September 12, 1990 Bob Gray, (714) 545-6649 James Prohaska, (703) 960-8068	Personal Computer Security Adapter Argus, Version 1 Software** Originally validated by Codercard, Inc. on February 26, 1987 - see entry 4.	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE ELEMENTS; EDITING

Vendor/Contact	Implementation	Validated Options
24. IBM Corporation Dept. 65K/B204-3 1001 W.T. Harris Blvd. Charlotte, NC 28257	4755 Cryptographic Adapter October 15, 1990	BINARY OPTION (FIPS 113)
Roger Evans, (704) 594-7	7060	
25. IBM Corporation Dept. 65K/B204-3 1001 W.T. Harris Blvd. Charlotte, NC 28257	4754 Security Interface Unit October 15, 1990	BINARY OPTION (FIPS 113)
Roger Evans, (704) 594-7	7060	
26. IBM Corporation Dept. 65K/B204-3 1001 W.T. Harris Blvd. Charlotte, NC 28257	IBM Personal Security Card October 15, 1990	BINARY OPTION (FIPS 113)
Roger Evans, (704) 594-7	7060	
27. Cypher Communications Technology, Inc. 15200 Shady Grove Rd. Suite 350 Rockville, MD 20850		BINARY OPTION (FIPS 113)
Angel Bailey, (301) 590-9	0314	
28. Cypher Communications Technology, Inc. 15200 Shady Grove Rd. Suite 350 Rockville, MD 20850	CYCOM SCI 192 AX7 5.05, Version 10084020 January 10, 1991	BINARY OPTION (FIPS 113)
Angel Bailey, (301) 590-9	9314	
29. Digital Equipment Corporation Digital Drive - MK01-2/1 Merrimack, NH 03054 Steve Lawrence, (603) 884-3445	PIN Pad 201 SMD Model: P003-120-XX March 25, 1991	BINARY OPTION (FIPS 113)

Vendor/Contact	Implementation	Validated Options
30. Information Security Corporation 1141 Lake Cook Road Suite D Deerfield, IL 60015 Michael Markowitz, (708) 405-0500	DES Module used in SpyProof! July 10, 1991	BINARY OPTION (FIPS 113)
31. Digital Signature Validated by Information Security Corporation 1115 N. East Avenue Oak Park, IL 60302 Michael Markowitz, (708) 405-0500	DES Module used in CryptMaster (3.20) and SecretAgent (1.00) July 15, 1991	BINARY OPTION (FIPS 113)
32. The Exchange Systems 15395 SE 30th Place Bellevue, WA 98007-6594 Robert Adamson, (206) 644-7000 X255	PCE-3000 (IBM PS/2 Microchannel) January 8, 1992	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE
33. The Exchange Systems 15395 SE 30th Place Bellevue, WA 98007-6594 Robert Adamson, (206) 644-7000 X255	PCE-1000 ISA Adaptor January 9, 1992	BINARY OPTION (FIPS 113) CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING CODED CHARACTERS; ENTIRE MESSAGE; EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EXTRACTED MESSAGE

8.8 Validations for Key Management

Vendor/Contact	Implementation	Validated Options
1. LITRONICS Information Systems 2950 Redhill Avenue Costa Mesa, CA 92626 (Originally validated by Codercard; rights transferred on September 11, 1990) Bob Gray, (714) 545-6649 James Prohaska, (703) 960-8068	Hardware: Argus-PC, Model: CMS-100 Software: Argus/MACE Software, Version: 1.0 September 23, 1988	No. of communicating pairs: 2 No. of manual (*)KKs per comm. pair: 2 Length of manual and auto. (*)KKs: PAIR Key generation capability: YES Number of auto. distr. (*)KKs shared: UP TO 4 Number of KDs shared: UP TO 8 2 KDs in KSMs: SOMETIMES Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of keys in KSMs: ALWAYS Send odd parity on keys in KSMs: ALWAYS Send IVs in KSMs: SOMETIMES Send encrypted IVs in KSMs: ALWAYS Send EDCs in RSIs and ESMs: ALWAYS Action if EDC received in RSIs and ESMs: NOT APPLICABLE Send EDKs in KSMs: SOMETIMES Action on count error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES IDA in DSM if only one KD can be shared: YES Role assumed: EITHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED

Validations for Key Management Using ANSI X9.17, Continued

Vendor/Contact	Implementation	Validated Options
2. TECHNICAL COMMUNICATIONS CORPORATION 100 Domino Drive CONCORD, Massachusetts 01742 John Gill, (617) 862-6035	Hardware: CX5000A Software: Version: 1.0 May 6, 1991	No. of communicating pairs: 1 No. of manual (*)KKs per comm. pair: 2 Length of manual and auto. (*)KKs: PAIR Key generation capability: YES Number of auto. distr. (*)KKs shared: 0 Number of KDs shared: 1 2 KDs in KSMs: NEVER Send RSI messages: NOT

Validations for Key Management Using ANSI X9.17, Continued

Vendor/Contact	Implementation	Validated Options
3. TECHNICAL COMMUNICATIONS CORPORATION 100 Domino Drive CONCORD, Massachusetts 01742 John Gill, (617) 862-6035	Hardware: CX5000 Software: Version: 2.0 May 15, 1991	No. of communicating pairs: 1 No. of manual (*)KKs per comm. pair: 2 Length of manual and auto. (*)KKs: PAIR Key generation capability: YES Number of auto. distr. (*)KKs shared: 4 Number of KDs shared: 1 2 KDs in KSMs: NEVER Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of keys in KSMs: ALWAYS Send odd parity on keys in KSMs: ALWAYS Send IVs in KSMs: SOMETIMES Send encrypted IVs in KSMs: ALWAYS Send EDCs in RSIs and ESMs: ALWAYS Action if EDC received in RSIs and ESMs: NOT APPLICABLE Send EDKs in KSMs: NEVER Action on count error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES IDA in DSM if only one KD can be shared: YES Role assumed: EITHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED

Validations for Key Management Using ANSI X9.17, Continued

	Vendor/Contact	Implementation	Validated Options
4.	COMMUNICATION DEVICES, INC. 1 Forstmann Court Clifton, NJ 07011 Gene Hartsell, (201) 772-6997	Hardware: RSD/E Software: Version 7.2	No. of communicating pairs: 1 No. of manual (*)KKs per comm. pair: 1 Length of manual and auto. (*)KKs: PAIR Key generation capability: NO Number of auto. distr. (*)KKs shared: 0 Number of KDs shared: 1 2 KDs in KSMs: NEVER Send RSI messages: NOT TESTED Receive RSI messages: NOT TESTED Notarization of keys in KSMs: ALWAYS Send odd parity on keys in KSMs: ALWAYS Send IVs in KSMs: SOMETIMES Send encrypted IVs in KSMs: ALWAYS Action if EDC received in RSIs and ESMs: NOT APPLICABLE Send EDKs in KSMs: NEVER Action on count error: ADJUST COUNT Send DSMs: YES Receive DSMs: YES IDA in DSM if only one KD can be shared: YES Role assumed: EITHER A OR B Automatic error recovery: NOT TESTED Space & CRLF as field delimiter: NOT TESTED Number of communicating pairs: 1 Number of manual (*)KKs per comm. pair: 2 Length of manual and

APPENDIX A

FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES



APPENDIX A

FIPS CONFORMANCE TESTING PRODUCTS AND SERVICES

The purpose of this appendix is to provide information about products and services that are available to Federal Agencies for assessing products for conformance to FIPS.

The entries in this list identify the topic, the standard tested, the NIST contact, and the product or service offered. The letters T, S, or C in the Product/Service column indicate a test method, testing service, or certificate/registered report respectively.

TOPIC	STANDARD	CONTACT	PRODUCT/SERVICE
COBOL	FIPS PUB 21-3	Judy Kailey NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3259	T, S, C
Fortran	FIPS PUB 69-1	Judy Kailey NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3259	T, S, C
Pascal	FIPS PUB 109	Kathryn Miles NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3156	T, S, C
С	FIPS PUB 160	Kathryn Miles NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3156	T, S, C
Ada	FIPS PUB 119	William Dashiell NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-2490	T, S, C
MUMPS	FIPS PUB 125	William Dashiell NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-2490	T, S, C
SQL	FIPS PUB 127-1	Joan Sullivan NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3258	T, S, C

TOPIC	STANDARD	CONTACT	PRODUCT/SERVICE
GKS	FIPS PUB 120	Susan (Quinn) Sherrick NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3268	T, S, C
CGM	FIPS PUB 128 MIL-D-28003	Lynne Rosenthal NIST, Bldg. 225, Rm. A266 Gaithersburg, MD 20899 (301) 975-3353	T, S, C
POSIX	FIPS PUB 151-1	Jim Hall NIST, Bldg. 225, Rm. B266 Gaithersburg, MD 20899 (301) 975-3273	T, S, C
Message Authentication	FIPS PUB 113	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
Key Management Validation	ANSI X9.17	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
Data Encryption Standard	FIPS PUB 46-1	Miles Smid NIST, Bldg. 225, Rm. A216 Gaithersburg, MD 20899 (301) 975-2938	T, S, C
GOSIP	FIPS PUB 146	Stephen Nightingale NIST, Bldg. 225, Rm 141 Gaithersburg, MD 20899 (301) 975-3616	T, S
1984 X25	CCITT X.25-1984 ISO 7776, ISO 8208 ISO 8882, ISO 9646 FIPS PUB 100-1 FIPS PUB 122(planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899	Т
ISDN Data Link Layer	Q921.LAPD ANSI T1.602	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	Т

TOPIC	STANDARD	CONTACT	PRODUCT/SERVICE
ISDN Physical Layer	S/T Interface ANSI T1.605 (S/T Interface) ANSI T1.601 (U Interface)		T (abstract)
ISDN Network Layer	Q931 ANSI T1.607 ANSI T1.608 FIPS PUB (planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	Т
FDDI	ANSI X3T9 FIPS PUB (planned)	David Su NIST, Bldg. 223, Rm. B364 Gaithersburg, MD 20899 (301) 975-6194	T



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10. SUPPLEMENTARY NOTES
11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAF LITERATURE SURVEY, MENTION IT HERE.)
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The Well-dated Boodests hist (VDI) identifies information technology and all the
The Validated Products List (VPL) identifies information technology products that
have been tested for conformance to Federal Information Processing Standards (FIPS) in accordance with Computer Systems Laboratory (CSL) conformance testing procedures,
and have a current validation certificate or registered test report. The VPL
includes computer language processors for programming languages Ada, C, COBOL,

Fortran, MUMPS, Pascal, and database language SQL; computer graphic implementations for GKS, and CGM; operating system implementations for POSIX; open systems interconnect implementations for GOSIP; and computer security implementations for DES, MAC and Key Management. The testing of products to assure conformance to the FIPS may be required by Government agencies in accordance with the FIPS, Federal Information Resources Management Regulation (FIRMR) Parts 201.13 and 201.39, and the associated Federal ADP and Telecommunications Standards Index. The VPL is updated and published quarterly.

12. KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)

conformance testing; validation; Ada; C; COBOL; Fortran; Pascal; MUMPS; POSIX; GOSIP; SQL; GKS; CGM; DES; MAC; Key Management; information technology; FIPS

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